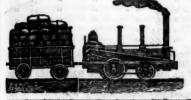
AMERICAN RAILROAD JOURNAL,

AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY,

AND MINES.



STORE AND CREEKERSTERN HALLESONE

ESTABLISHED 1831.



PUBLISHED WEEKLY, AT No. 23 CHAMBERS STREET, NEW YORK, AT FIVE DOLLARS PER ANNUM.

SECOND QUARTO SERIES, VOL. II., No. 20.]

SATURDAY, MAY 16, 1846.

[WHOLE No. 516, Vol. XIX.

ment. On and after Mon-day, April 6, 1846, the Pas-

senger Trains will run as follows:
For New York—Night Line, via Stonington.
Leaves Boston every day, but Sunday, at 5 p.m.
Accommodation Trains, leave Boston at 7½ a.m.
and 4 p.m., and Providence at 8 a.m. and 4½ p.m.
Dedham trains, leave Boston at 8 a.m. 12½ m.,
3½ p.m., and 6½ p.m. Leave Dedham at 7 a.m.
and 9½ a.m. and 2½ and 5½ p.m.
Stoughton trains, leave Boston at 1½ a.m. and 5½ p.m.
Leave Stoughton at 7:20 a.m. and 3½ p.m.
All baggage at the risk of the owners thereof.
31 ly W. RAYMOND LEE, Supt.

BRANCH BALLBOAD and STAGES CON.

Berwick, Wells, Kennebunk and Saco.
Summer Arrangement, 1846.
On and after April 13, 1846, Passenger Trains will leave daily, (Sundays excepted.) as follows:
Boston for Portland at 7½ a.m. and 2½ p.m.
Boston for Great Falls at 7½ a.m. and 1½ a.m., 2½ and 4½ p.m.
Boston for Haverhill at 7½ and 11½ a.m., 2½, 4½ and 6 p.m.
Fortland for Boston at 7½ a.m., and 3 p.m.
Great Falls for Boston at 6½ and 9½ a.m., and 4½ p.m.

Great Falls for Boston at 6½ and 9½ a.m., and 4½ p.m.

BRANCH RAILROAD and STAGES CON-necting with the Boston and Providence Railroad. Stages connect with the Accommodation trains at

Stages connect with the Accommodation trains at the Foxboro' Station, to and from Woonsocket, At the Seekonk Station, to and from Lonsdale, R. I. via Pawtucket. At the Sharon Station, to and from Walpole, Mass. And at Dedham Village Station, to and from Medford, via Medway, Mass. At Providence, to and from Bristol, via Warren, R. I.—Taunton, New Bedford and Fall River cars run in connection with the accommodation trains.

NORWICH AND WORCESTER RAIL-Road. Summer Arrangement, commencing

Monday, April 6, 1846.

Accommodation Trains, daily,

except Sunday. Leave Norwich, at 6 a.m., and 41 p.m. Leave Worcester, at 10 a.m., and 41 p.m.

The morning Accommodation Trains from Norwich, and from Worcester, connect with the trains of the Boston, and Worcester and Western Editorals each way. railroads each way.

The Evening Accommodation Train from Worcester connects with the 11 p.m. train from Boston.

New York Train via Long Island Railroad:
Leave Allyn's Point for Boston, about 1 p.m., daily, except Sunday.

Leave Worcester for New York, about 10 a.m., stopping at Webster, Danielsonville, and Norwich. New York Train via Steamboat—Leave Norwich for Boston, every morning, except Monday, on the arrival of the stamboat from New York, stopping at Norwich and Danielsonville.

Leave Worcester for New York, upon the arrival of the train from Boston, at about 41 p.m., daily, except Sunday, stopping at Webster, Danielsonville and Norwich.

Passengers \$1000; cantal and a later of the price.

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Passengers \$1000; cantal and a later of the price.

Passengers

Freight Trains daily each way, except Sunday.— Special contracts will be made for cargoes, or large quanties of freight, on application to the superinten-dent.

IF Fares are Less when paid for Tickets than when paid in the Cars. II
J. W. STOWELL, Sup't.

BUSTON AND PROVIDENCE RAILDOSTON AND MAINE RAILBOAD.

Passenger Notice. Summer ArrangeUpper Route, Boston to Portland via, Reading,

Andover, Haverhill, Exeter, Dover, Great Falls, South & North

Haverhill for Boston at 61, 81, and 11 a.m., and

Haverhill for Boston at 61, 81, and 11 a.m., and 4 and 63 p.m.

Reading for Boston at 61, 71 and 91 a.m., 12 m., 11, 5 and 73 p.m.

The Depot in Boston is on Haymarket Square.

Passengers are not allowed to carry Baggage above \$50 in value, and that personal Baggage, unless notice is given, and an extra amount paid; at the rate of the price of a Ticket for every \$500 additional value.

CHAS. MINOT, Super't.

GUSTA to ATLANTA-171 MILES.

AND WESTERN AND ATLANTIC RAILROAD FROM ATLANTA TO OOTHCALOGA, 80 MILES.

This Road in connection with the South Carolina Railroad and Western and Atlantic Railroad now forms a con-tinuous line, 388 miles in length, from Charleston to Oothcaloga on the Oostenania River, in Cass Co.,

Rates of Freight, and Passage from Augusta to Ooth-caloga.

On Boxes of Hats, Bonnets, and Furniture On Boxes of Hats, Bonnets, and Furniture
per foot. 16 cts.

"Dry goods, shoes, saddlery, drugs, etc., per
100 lbs. 95 "

"Sugar, coffee, iron, hardware, etc. 65 "

"Flour, bacon, mill machinery, grindstones,
etc. 331 "

"Molasses, per hogshead \$9.50; salt per bus. 20 "

"Ploughs and cornshellers, each 75 "
Passengers \$10.50; children under 12 years of age half price.

Goods consigned to S. C. Railroad Co. will be forwarded free of commissions. Freight may be paid at Augusta, Atlanta, or Oothcaloga.

J. EDGAR THOMSON,

Ch. Eng. and Gen. Agent.

Ch. Eng. and Gen. Agent.
Augusta, Oct. 21 1845. 44 1y

SUMMER ARRANGEMENT.—NEW YORK AND ERIE RAILROAD LINE, from April ed) between the city of New York and Middletown, Goshen, and intermediate places, as follows:

FOR PASSENGERS—
Leave New York at 7 A.M. and 4 P.M.

"Middletown at 64 A.M. and 54 P.M.
FARE RABUCED to \$1 25 to Middletown—way in proportion. Breakfast, supper and berths can be had

on the steamboat.

I Leave New York at 5 P. M.

"Middletown at 19 M.

The names of the consignee and of the station where to be left, must be distinctly marked upon each article shipped. Freight not received after 5 P. M. in New York.

Apply to J. F. Clarkson, agent, at office corner of Duane and West sts.

H. C. SEYMOUR, Sup't.

March 25th. 1846.

March 25th, 1846.

Stages run daily from Middletown, on the arrival of the alternoon train, to Millord, Carbondale, Honesdale, Montrose, Towanda, Owego, and West; also to Monticello, Windsor, Binghamton, Ithaca, etc., etc. Agent on board.

BALTIMORE AND OHIO RAILROAD.
MAIN STEM. The Train carrying the

Great Western Mail leaves Bal-timore every morning at 71 and timore every morning at 71 and Cumberland at 8 o'clock, passing Ellicott's Mills, Frederick, Harpers Ferry, Martinsburgh and Hancock, conneting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry—with the various railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Mouongahela Slack Water between Brownsville and Pittsburgh. Time of arrival at both Cumberland and Baltimore 51 P. M. Fare between those points 37, and 4 cents per mile for less distances. Fare through to Wheeling \$11 and time about 36 hours, to Pittsburgh \$10, and time about 32 hours. Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

Daily trains at 9 A. M. and 5 P. M. and 19 at night from Baltimore and at 6 A. M. and 5 P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington and the Relay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances. \$13y1

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Works,

Two passenger trains daily.

Two passenger tr Leaves Baltimore at 9 a.m., and arrives at 6 p.m. Arrives at 12 p.m., and leaves for Columbia at 14 p.m. Leaves Columbia at 2 p.m., and leaves York for Baltimore at 3 p.m. Fare to York \$2. Wrightsville \$2 50 and Columbia \$2 624. The ALTIMORE AND SUSQUEHANNA burg, Pittsburg and York Springs.

Fare to Pittsburg. The company is authorized by the proprietors of Passenger lines on the Pennsylvania improvements, to receive the fare for the whole distance from Baltimore to Pittsburg. Baltimore to Pittsburg. Fare through, \$9 and \$10.

Afternoon train. This train leaves the ticket of fice daily, Sundays excepted, at \$1 p.m. for Cockeys Returning, leaves. Parking, Owings.

And 1½ p.m. Returning, will leave Xenia at 5 00 min. a. m., and 2 o'clock 40 min. p.m.
On Sundays, but one train will be run—leaving Cincinnati at 9 and Xenia at 5 00 min. a. m.
Both trains connect with Neil, Moore & Co.'s daily line of stages to Columbus, Zanesville, Wheeling, Cleveland, Sandusky City and Springfield.

Tickets may be procured at the depot on East.
The company will not be responsible for the beyond fifty dollars in the company will not be responsible for the company will not be responsible for the procured at the depot on fifty dollars in the company will not be responsible for the procured at the depot on East. face daily, Sundays excepted, at 31 p.m. for Cockeys-ville, Parkton, Green Springs, Owings' Mills, etc. Returning, leaves Parkton at 6 and Cockeys-ville and Owings' Mills at 7, arriving in Baltimore at 9 c'clock a.m.

Tickets for the round trip to and from any point can be procured from the agents at the ticket offices or from the conductors in the cars. The fare when tickets are thus procured, will be 25 per cent. less, and the tickets will be good for the same and following day any passenger train.

D. C. H. BORDLEY, Supt.

Ticket Office, 63 North st. CENTRAL RAILROAD-FROM SAVAN-nah to Macon. Distance 190 miles. This Road is open for the trans-Preight. Rates of Passengers and Freight. Rates of Passage, \$8 00. Freight—
On weight goods generally... 50 cts. per hundred.
On measurement goods 13 cts. per cubic ft. On bris, wet (except molasses On iron in pigs or bars, cast-ings for mills, and unboxed Goods addression.

THOMAS Townsportation.

Gen'l. Sup't. Transportation.

NEW YORK & HARLEM RAILROAD CO.—Summer Arrangement.

On and after Friday, May 1st, 1846, the cars will run as follows:

Leave City Hell for Yorkville, Harlem and Mor rianna, at 7, 8, 9, 10 and 11 a. m., and at 1, 2, 3 30, 4 30, 5, 6, and 6 30 p. m.

Leave City Hall for Fordham and Williams' Bridge, at 7, 10 and 11 a. m., and at 2, 3 30, 5, and

6 30 p. m. Leave City Hall for Hunt's Bridge, Bronx, Tuc

kahoe, Hart's Corners and White Plains, at 7 and 10 a. m., and at 2 and 5 p. m.

Leave Harlem and Yorkville, at 7 10, 8 10, 9, 10, 11 10 a. m., and at 12 40, 2, 3 10, 5 10, 5 30, 6 10,

and 7 p. m.
Leave Williams' Bridge and Fordham, at 6 45, 7 45, and 10 45 a. m., and at 12 15, 2 45, 4 45, and

5 45 p. m. Leave White Plains, at 7 and 10 a. m., and at 2 and 5 p. m.

The freight train will leave the City Hall at I o'clock, p. m., and leave White Plains at 1 o'clock in the morning.

On Sundays, the White Plains train will leave the City Hall at 7 a. m. and 5 30 p. m.; will leave White Plains at 7 a. m. and 6 p. m. On Sundays, the Harlem and Williams' Bridge

trains will be regulated according to the state of the

RAILROAD IRON.—THE "MONTOUR Iron Company," Danville, Pa., is prepared to execute orders for the heavy Rail Bars of any pattern now in use, in this country or in Europe, and equal in every respect in point of quality. Apply to MURDOCK, LEAVITT & CO., Agents.

Corner of Cedar and Greenwich Sts.

LITTLE MIAMI RAILROAD.—1846.— Summer Arrangement,

CALIGRAPHIC BLACK LEAD PEN-cil, Manufactured by E. Wolff and Son, 23 Church Street, Spitalfields, London. The Caligraphic Pencils have been invented by

Superintendent.

E. Wolff and Son, after the expenditure of much time and labor. They are the result of many experments; and every effort that ingenuity and experience could suggest, has been made to insure the highest degree of excellence, and the profession may rely upon their being all that can be desired.

They are perfectly free from grit; and for richness of tone, depth of color, delicacy of tint, and evenness

of texture, they are not to be equalled by the best Cum-berland Lead that can be obtained at the present

creation, by their being little more than half the price of other pencils.

An allowance will be made on every groce pur-

chased by Artists or Teachers.

May be had of all Artists, Colourmen, Stationers,

Booksellers, etc.

Booksellers, etc.

A single pencil will be forwarded as a sample, upon the receipt of postage stamps to the amount.

Caution.—To prevent imposition, a highly finished and embossed protection wrapper, difficult of imitation, is put around each dozen of Pencils. Each Pencil will be stamped on both sides, "Caligraphic Black Lead, E. Wolff and Son, London."

The subscriber has on hand a full surely of Wolff.

The subscriber has on hand a full supply of Wolff and Sons celebrated Creta Loevis, or Colored Drawing Chalks, also their pure Cumberland Lead and extra prepared Lead Pencils, and Mathematical Lead Pencils.

P. A. MESIER. Stationer and Sole Agent, No. 49 Wall Street.

-A complete assortment of Steven's Genu ine Inks, Fluids, Imitating Wood stains, and Graining Colours at the Manufacturers prices.

BRINLEY, Manufacturer, Perth Amboy, N. J. Guaranteed equal to any, either domestic or foreign. Any shape or size made to order. Terms, 4 mos. from delivery of brick on board. Refer to

James P. Allaire, Peter Cooper, Murdock, Leavirt & Co. New York. J. Triplett & Son, Richmond, Va. J. R. Anderson, Tredegar Iron Works, Rich-

J. R. Anderson, Tredegar Iron Works, Rich, mond, Va.
J. Patton, Jr.
Colwell & Co.
J. M. L. & W. H. Scovill, Waterbury, Con.
N. E. Screw Co.
Eagle Screw Co.
William Parker, Supt. Bost. and Worc. R. R.
New Jersey Malleable Iron Co., Newark, N. J.
Gardiner, Harrison & Co. Newark, N. J.
25,000 to 30,000 made weekly.

35 1y

FLAT BAR, ENGLISH ROLLED, RAILroad Iron, 21 × 1—a large part suitable to
relay. For sale by C. J. F. BINNEY,
Commission Merchant, 1 City Wharf, -11 1m Boston, Mass

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The 61 a.m. and 2 o'clock p.m. runs from Troy, to Boston runs.
The 12 m. and 6 o'clock p.m. trains from Boston

Passengers from Albany will leave in the Boston Ferry Boat at the foot of Maiden Lane, which starts promptly at the time above advertised.

Passengers will be taken and left at the principal
Hotels in River Street, in Troy, and at the Nail

> L. R. SARGENT, Superintendent 14 1y

in an

Troy, April 1st, 1846.

Works and Bath Ferry.

MACHINE WORKS OF ROGERS, Ketchum & Grosvenor, Patterson, N. J. The undersigned receive orders for the following articles, time, and are infinitely superior to every other description of Pencil now in use.

The Caligraphic Pencils will also recommend themselves to all who use the Black Lead Pencils as an instrument of professional importance or reason instrument of professional importance or restriction.

ders with promptness and despatch.
Railroad Work.
Locomotive steam engines and tenders; Driving and other locomotive wheels, axles, springs & flange tires; car wheels of cast iron, from a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and bolts for cars.

Cotton, Wool and Flax Machinery of all descriptions and of the most improved patterns, stile and workmarship.

style and workmanship.

Mill gearing and Millwright work generally;
hydraulic and other presses; press screws; callenders; lathes and tools of all kinds; iron and brass

castings of all descriptions.
ROGERS, KETCHUM & GROSVENOR, Paterson, N. J., or 60 Wall street, N. York.

PO RAILROAD COMPANIES AND MAN-Lufacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all ; English blister, cast, shear and spring Juniata rods; car axles, made of double refined iron; sheet and boiler fron, cut to pattern; tiers for locomotive engines, and other railroad carriage wheels, made from common and double refined B. O. iron; the latter a very superior article. The tires are made by Messrs, Baldwin & Whitney, locomotive engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in

the order, a fit to those wheels is guaranteed, saving to the purchaser the expense of turning them out inside. THOMAS & EDMUND GEORGE, N. E. cor. 12th and Market sts., Philad., Pa.

THE SUBSCRIBERS, AGENTS FOR
the sale of
Codorus,
Glendon,
Spring Mill and
Valley,
Have represented the solicit the

Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Machinery, for which purpose the above makes of Pig Iron are particularly adapted.

They are also sole Agents for Wa'son's celebrated Fire Bricks and prepared Kaolin or Fire Clay, orders for which are promptly spendied.

ed Fire Bricks and prepared Raonn of Ale orders for which are promptly supplied. SAM'L. KIMBER, & CO., 59 North Wharves, Jan. 14, 1846. [1y4] Philadelphia, Pa.

AND LOCOMOTIVE Control of the subscriber having made important improvements in the construction of rais, mode of r



G REAT SOUTHERN MAIL LINE! VIA

CREAT SOUTHERN MAIL LINE! VIA Washington city, Richmond, Petersburg, Weldon and Charleston, S. C., direct to New Orleans. The only Line which carries the Great Southern Mail, and Twenty-four Hours in advance of Bay Line, leaving Baltimore same day.

Passengers leaving New York at 4½ P.M., Philadelphia at 10 P.M., and Baltimore at 6½ A.M., proceed without delay at any point, by this line, reaching Richmond in eleven, Petersburg in thirdeen and a half hours, and Charleston, S. C., in two days from Baltimore. Baltimore.

STOCTON & FALLS, Agents.

CEORGE VAIL & CO., SPEEDWELL IRON
T Works, Morristown, Morris Co., N. J.—Manufacturers of Railroad Machinery; Wrought Iron
Tires, made from the best iron, either hammered or
rolled, from 14 in. to 24 in thick.—bored and turned
ontside if required. Railroad Companies wishing
to order, will please give the exact inside diameter,
or circumference, to which they wish the Tires
nade, and they may rely upon being served according to order, and also punctually, as a large quantity
of the straight bar is kept constantly on hand.—
Crank Axles, made from the best refined iron;
Straight Axles, for Outside Connection Engines;
Wro't. Iron Engine and Truck Frames; Railroad
Jac's Screws; Railroad Pumping and Sawing Machines, to be driven by the Locomotive; Stationary
Steam Engines; Wro't. Iron work for Steamboats,
and Shafting of any size; Grist Mill, Saw Mill and
Paper Mill Machinery; Mill Gearing and Mill
Wright work of all kinds; Steam Saw Mills of simple and economical construction, and very effective
Iron and Brass Castings of all descripions.

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NICOLL'S PATENT SAFETY SWITCH for Railroad Turnouts. This invention, for some time in successful operation on one of the principal railroads in the country, effectually prevents engines and their trains from running off the track at a switch, left wrong by accident or design.

It acts independently of the main track rails, being laid down, or removed, without cutting or displacing

It is never touched by passing trains, except when it use, preventing their running off the track. It is simple in its construction and operation, requiring only two Castings and two Rails; the latter, even if much worn or used, not objectionable.

Working Models of the Safety Switch may be seen at Mesars. Davenport and Bridges, Cambridgeport, Mass., and at the office of the Railroad Journal, New York.

Plans, Specifications, and all information obtained.

New York.

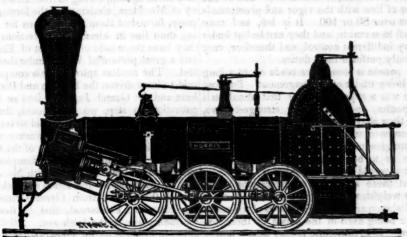
Plans, Specifications, and all information obtained on application to the Subscriber, Inventor, and Patentee.

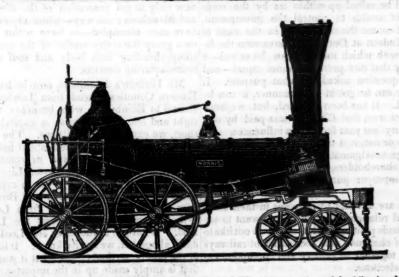
G. A. NICOLLS, 1845

Reading, Pa.

RAILROAD IRON WANTED. WAN-ted, 50 tons of Light Flat Bar Railroad Iron. The advertisers would prefer second-hand iron, if not too much worn. Address Box 384 Philadelphia P. O.—Post paid.

BUSH HILL, PHILADELPHIA, Pennsylvania.





MANUFACTURE their Patent 6 Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz:

Class 1, 15 inches Diameter of Cylinder, × 20 inches Stroke. 15 inches Diameter of Cylinder, × 20 inches Stroke. × 24 14

2, 3, 4, × 20 er 22 141 22 × 20 22 44 64 11 121 111 × 20 11 66 44 33 23 22 6, 101 23 66 × 18 23

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion.

Castings of all kinds made to order: and they call attention to their Chilled Wheels or the Trucks of Locomotives, Teaders and Cars.

NORRIS, BROTHERS.

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Amalgamation of Railways and the Ate

We are often amused at the free and independent tone of discussion adopted by the able editor of Herapaths Railway Journal; and, though we do not always coincide with him in opinion, we read his strictures with both pleasure and profit, and as often give place to those in opposition to, as in accordance with our own views, that our readers may have the advantage of his investigations and suggestions,-The particular remarks to which we now allude are upon the policy of "amalgamation," or bringing several railways under one management, and the "Atmospheric railway," or principle of propulsion, which we find in the number of 28th March.

Upon both of these important questions the editor early recorded his disapproval, and neither of them

bered that we raised our voice against amalgamntions years ago, but we were borne down in that by the all but unanimous voice of the An amalgamating fever had come over shareholders, and after several vain and fruitless combats, we gave up the contest. 'It affords us however, satisfaction to find that our views were then right—that these gigantic unions have at length attracted the atten-

tiod of a power capable of dealing with them. Amalgamations were at first instituted on the supposition that the working expenses think it would be infinitely better. would be naturally lessened. In certain catheir experience. There their locomotive depots are, at which all making, repairs, etc., are executed. The London and Birmingham early saw the necessity of a central point for their locomotive staff. The Great Western for some time had theirs at the London end, and the Grand Junction at the Liverpool.—

But they got the first at the London and grand point for the company last year for certain influences. But the letter line is only 97 miles.

The company and soul of the facility that our premier cannot equal—and manufacturing districts.

Mr. Hudson's dominions, now he has the Eastern Counties, extend from 'London and Bristol to Edinburgh, with branches to the company last year for certain influences. Be short, we expect, of 50 millions. The London and Birmingham united capital has been proported by the large amalgamations, which are of no use certimeted at 30,000 and its counted at 20,000 veniences, they gave up their large establish- weal. ment there, and removed to the little village of Crewe. The object was to have their locomotives at a more central point, in case of them made political ladders of; we do not like to End. What the Manchester and Leeds capeter. Every one knows that nothing but ne-cessity would induce companies to have their What we ha head establishment distant from their principal plies also to leases of trunk lines. We think offices. That necessity determines all lines, both improper and mischievous, unless when above 70 or 80 miles, at whatever incomethey are necessary branches or short lines.

The first of these amalgamations to any about the middle of the line. The object, as extent was the Midland. That arose from if anything short, when all the projects are we have said, is economy and centralization the ridiculous contention of the Midland completed, of 110 to 120 millions of money.

slovenly perform their duties.

companies, and enforce by strongest laws,

ceeds about 100 miles, as we years ago poin- power being even in the hands of their sov- German ocean to the Irish sea. But though the latter line is only 97 miles, and Liverpool, from being a port, and so near the manufacturing districts, had superior control or the manufacturing districts, had superior control or the manufacturing districts, had superior control or the manufacturing districts, and superior control or the manufacturing districts, had superior control or the manufacturing districts and manufacturing districts are the manufacturing districts are the manufacturing districts and manufacturing districts are the manufacturing

accident. The Great Western have shops at hear of chairmen and secretaries of railways ital is altogether, we hardly know. It is short Bristol, where a fresh engine goes on to Exunited together in bribery and corruption ca. of the others, no doubt; but what it wants in

What we have said of amalgamations ap-

of power, in case of accidents. If that were not the case, would the Midland have their neous estimate made of the traffic from the locomotive establishment at Derby, rather population on the North Midland railway.—

ist? What can prevent all these great rivers, than at Birmingham, the focus of iron man
Mr. Hudson having been fortunately connec
when they shall have swallowed up all the

ufactures? The companies have indeed ted with the North and York Midland, a themselves pointed out, that 100 miles or cheap line, was conceived to be a man who thereabouts are sufficient for one length of would introduce a more vigorous system of line; and there is no economy in a greater economy and retrenchment, and was there-length, except in the insignificant fraction of fore with his friends installed into the direcexpense of management. That indeed is not tion, to the exclusion of the old board. Changenerally true, as has been proved by the ges—and great reductions were made, in London and Birmingham, themselves increa- some cases very just, in others very hard on sing their number of directors, on account of the old servants, which, aided by a fortunate the increased length of the lines under their turn of the times, raised the line from a deplorable plight into prosperity. The amalga-We say therefore, that experience has proved that which we years back contended for, namely, that about 100 miles are as much as should be in any one line.

But another reason against extensive lines and amalgamation into fashion. The spirits early recorded his disapproval, and neither of them has thus far gained his favor—as our readers will be preceive by the remarks above alluded to. He says:

"We have long been desirous to see more limits put to the extensive amalgamations going on with companies. It will be remembered that we say and they was a based that we are he but under their line in all an analgamation into fashion. The spirits is the public safety. In all very long lines, of the Great Western soon saw the advantage to be made of it, and the sense ess quarrel because the extensive amalgamation into fashion. The spirits is the public safety. In all very long lines, of the Great Western soon saw the advantage to be made of it, and the sense ess quarrel because with the power is very feeble. It is selfevidently to be made of it, and the sense ess quarrel because with the vigor and promptitude cy of Mr. Moss, chairman of the former committees and the very line in all the same and amalgamation into fashion. The spirits is the public safety. In all very long lines, of the Great Western soon saw the advantage to be made of it, and the sense ess quarrel because the consist, to watch over 200 or 30 and Birmingham, owing to the unwise politic safety.

It will be remembered that we will be remembered that we are heart and amalgamation into fashion. The spirits is the public safety. In all very long lines, of the Great Western soon saw the advantage to be made of it, and the sense ess quarrel because the providence of the constant of the providence of the great was a sense of the constant of the providence of the great was a sense of be left to servants, and they can be but under ing their line in almost all directions until a very indifferent control, and therefore, very they have the whole of the west of England ovenly perform their duties.

A parade is sometimes made about a long trol. The restless spirit of this company is line being under one management. Suppose said to have driven the London and Birming-there was a superior power that should tell ham and the Grand Junction into an amalcompanies, and enforce by strongest laws, gamation—a step, we have heard, that the how they shall work together for the public London and Birmingham would never have convenience, would not that be far better than desired had it not been as a measure of dea management spread so thinly over a large space as to be seeble and inefficient? We Western. Profiting by these examples, and on account of their quarrels with Mr. Hud-But there are other considerations of far son, the Manchester and Leeds are seeking to ses of small lines and of particular branches more weight, namely, the public welfare.— extend their arms from Great Grimshy to that is so, but it is not a fact when a line exted out. An engine generally runs about 50 ereign. Is it, therefore, proper that a power nals are brought up by them, and they have miles out, and 50 miles home. It is so on should be raised up within us by the mere now only to get possession of the Sheffield the London and Birmingham, Great Western, force of wealth to control the government, and Manchester railway—which object they and Grand Junction. Wolverton, Swindon, and of course the country? In the case of have once attempted—to have within their and Crewe are about the middle of these lines, and are placed there from the results of cility with which millions can be raised—a comprehending both body and soul of the

about the same as the London and Birmingthat is amply made up in the importance and value of the districts they have at their mercy.

Thus our country is divided into four parts, and our locomotion subject to the control of four great powers, with a united capital little, forming a forrent altogether irresistible to the government itself? If railways are to merge one into the other in this way, we prefer by far that they should be under the control of a responsible body as the government, than under parties who, like directors, are, by their acts of parliament, irresponsible both to the shareholders and to the public for whatever they do in their administrative capacity. We do not say or imagine that any of the present railway directors would abuse their powers. We do not believe they would, though there are one or two boards not over remarkable on the government itself? If railways are to merge quantity of ammonia used on the Southampton railway is 1½ lb. to every 1,500 or 2,000 gal. 1, octavo series of the our table, page 95, vol. 1, octavo series of the Railway Magazine, under the front derent altogether in this way, we prefer by the rate of 1 lb. for every 1,500 or 2,000 gal. 1 lons of water. The cost of ammonia is about 3d. per lb. He had also seen a number of experiments made on the engines of steam versels, one of which, the George the Fourth, had its boiler completely incrusted, but after the experiment had been carried on for six stance of road and of atmosphere in so rough a subject, show that we have got the law of the vessel afterwards steamed for twelve days without blowing off the water from the boil.

We do not believe they would, though there are one or two boards not over remarkable ers. It had also been tried in a small stall on the force that a locomotive would exert to bad as if they were surrounded and cut off time the engine had worked for fifty-eight from us by an enemy's army. The welfare of the three kingdoms, and of 26, perhaps then of 30 millions of people, would be at the mercy of a few irresponsible petty monarchs, sitting in a board room at Manchester, for sand, which had been kept in suspense in made. From the possibility of these evils we work. Various other experiments were ingenious toy, but as a commercial speculation, can only be persevered in by deliberate fraud or blind ignorance. jurious to the welfare of the country, than they are to the permanent welfare of the shareholders.

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We shall probably return to this subject.

Incrustation of Boilers.
We find in the London Railway Chronicle, of the 14th of March, the following statement of Dr. Ritterbrandt, made to the Society of Arts on the 4th, in relation to the cleansing of steam boilers. The experience of Mr. Gooch, on the Southampton railway, will probably induce a trial by others.

The report says, that

" Dr. Ritterbrandt made a further communication on the subject of the 'formation of incrustations in steam boilers, and on the means of preventing it, and a number of in-teresting and valuable experiments were made, which proved, that although the muriate of ammonia effectually disintegrates the incrustation, still it does not have any injurious number of practical experiments on locomotive engines with the ammonia, but when the subject first came under his consideration, there were two points which he was desirous of having made clear to him. The first was, that the ammonia would actually prevent the deposit; and the second was, that the application of the muriate of ammonia, when applied to cleanse the boilers did not produce any injurious effect upon the metal. Upon both of these points he is now perfectly satisfied, and has adopted the plan with all the

little rivulets, flowing one into the other, and engines under his superintendence. The forming a torrent altogether irresistible to the quantity of ammonia used on the Southampton phere we have taken from the 5th column of are one or two boards not over remarkable ers. It had also been tried in a small sta- on the force that a locomotive would exert to for their honor and good faith. But are these tionary high pressure engine of eight-horse draw the same loads at the same velocities in gentlemen, like Gulliver's Strulbugs (we be-lieve they are called,) destined to live forev-same results followed; but the owner, in or-We put it to any honest man if such a syser? and if they are not, what security have der to satisfy himself as to whether or not tem as this can ever succeed against the loco-we that the future will be like the present?— any injurious effect would be produced upon motive, let them save in other respects what Let us take for example, one district, the the boiler by the ammonia, put 14 lbs. of it they may?

Manchester and Leeds, and suppose that falls into the boiler, and the whole of the pipes Were we asked to what this enormous into the hands of parties who may take it into soldered up to prevent any portion of it estheir heads, as the Garnkirk and Glasgow caping, and after three days a small quantity directors once did, to put the screw on, in of the water was taken out and tested, but what state should we be? The whole of the not the slightest trace of metal was discovermanufacturing districts would be almost as ed, and after about six weeks, during which

> we published a fortnight ago, startle us .-There is something behind the scenes against inches of vacuum, were applied to draw restheir almost perfect coincidence in condempectively, not 165 and 254, but only 32 and nation of the project.] 111 tons respectively. Our correspondent the atmosphere, every inch of vacuum would, with their tube and level road, draw 11 tons of lond. According to our correspondent's observation there is a waste of power of 510 hardly observe, that exclusive of the resisbe the same at all velocities. That was and periments according to velocity, we have-

Velocities in miles per hour. Powers exerted in tons loads.	12 165‡	191 220-00	43 254·00
Loads taken Ditto in resistance of atmosphere in ditto	32	36 9.00	111
Total draft in tons, exclusive of piston friction	354	The sale	55.8
Ratios to powers employed	4-70	4.90	4-55

The effect of the resistance of the atmos-

loss is owing, we should say, a small portion to the friction of the piston and other gearing but the main part to the friction of the air, as pointed out by Mr. Herapath, before and behind the piston. Before the piston the air cannot get fast enough away, and thereby diminishes the effect of the vacuum; and behind it cannot follow up quickly enough to exert its full pressure on the back of the piston. This being the case, it is utterly hopeless to attempt its remeey. The atmospheric scheme is and will continue to be a pretty

best known to themselves, will not permit

Atmospheric Railway.—[The following exeither Mr. Stephenson or Mr. Herapath, or
periments from a correspondent, with those anyone competent to make experiments, to investigate the matter, and it is only by chance that we can get at any facts from which usethis scheme more formidable than we had ful conclusions can be drawn. The above ever anticipated. Thus, in the experiments are by very different individuals, and at different times, Properly analyzed, we see

"The every day working of this system who makes the computations for us, says that on the Croydon railway is worthy of attenthey had a power of 220 tons applied to draw tion. Facts are stubborn but instructive 36 tons. We may here by the way observe things. The following being a similar rethat if there was no friction or resistance from lation of the performances of a journey to Croydon and back a day or two ago, by the Atmospheric railway, will I hope, be interesting to you and to your readers. Results observation there is a waste of power of 510 of actual working are surely the best test of per cent. on the useful effect. We need the capabilities of any contrivance. In going to Croydon the train (not a special, but an oreffect upon the boilers, whether they are of tance of the atmosphere, the friction would dinary one,) left Forrest Hill station, the comcopper or iron. Mr. Gooch, of the South-be the same at all velocities. That was and mencement of the Atmospheric railway at mencement of the Atmospheric railway, at 22 minutes to 5 o'clock in the afternoon. The barometer showed 19 inches of vacuum.

"The train consisted of 9 carriages, with a somewhat light load of passengers.

"We reached Sydenham at 194 minutes to 5-distance one mile; therefore this portion, a favorable one, was run at the rate of 24 miles an hour.

"Upon starting from Sydenham, the mercury rose to 21 inches, owing of course to the air being pumped out while waiting at that station; but in this, as in every other instance when the train had proceeded some

"Upon starting from Norwood the mercury stood at 221 inches. At a short run from this station, sufficient to acquire a good momentum, but not sufficient to collect any quantity of repelling atmosphere in the vacuum pipe, as shown by the barometer mainrailways, having equally heavy and heavier gradients? The train descended the viaduct 70 miles per hour.

We arrived at Croydon at 51 minutes to 5. Thus the five miles of the Atmospheric line was traversed in 161 minutes, or at the

rate of about 181 miles per hour.

"The stationary engine house at Croydon is situated a short distance from the station. While waiting here, the working of the station engine in pumping out the atmosphere from the pipe, was heard like the noise of the well-known sausage machine in Oxford st.

"The time occupied in going over the atmospheric portion, on returning to London, was 15½ minutes; being at the rate of 19½ miles an hour. The train was composed of only eight carriages, and the load was very light. The locomotive took the same train the rest of the distance to London in 11 minutes. This distance is about 51 miles as opposed to the atmospheric portion of 5 miles. Therefore by locomotive power the same nal, and ask attention to the closing paragraph: train was propelled at the rate of 30 miles against the rate on the Atmospheric of 20

miles per hour.
"When the train on the Atmospheric railand presently passed us—to use an illustra—as on other lines, since the commencement of From Birmingham to Bristol.. 22s. 15s. 6d. 12s. 0d. his cap several times round his head, and to move in that direction.

riages; and we had to wait, when arrived at so long as the public reap the benefit.

London, full a quarter of an hour, until that "We have more than once intimated that

make room for us.

"In performing the journey over the At-enormous. If we inquire why it is that beshort distance from the station, the mercury mospheric line, the average height of the tween Bristol and York we are kept in ignosunk. It did so now to 20 inches. Reached mercury in the barometer was somewhat more rance of the fares, the answer is, because the Norwood at 111 minutes, having left Syden than 20 inches. I will make my calculations Midland directors do not court comparison; ham at 142, being at the rate of 181 miles an upon 20. The barometer, your readers are in short, that they are ashamed of their exacaware, measures the amount of vacuum in the tions when contrasted with the fares on the pipe, or in other words, the amount of atmos-other lines. We will, however, supply the pheric pressure on the piston, at the rate of deficiency in some instances; after which, if half a pound weight on every square inch of the interests of those connected with the Midmercury. The pressure, therefore, on the land lines are brought down by competition, square inch was 10 lbs, and as there are in let them thank their own management for the area of the piston (15 inches diameter) 176 consequences. We have frequently express. taining about the same or a little less height square inches, it follows, (omitting fractions) ed our disapprobation of amalgamations, and of mercury, occurs a gradient of 1 in 50 for a short distance over a wooden viaduct, which the train mounted with no great labor, but the force that was applied on Mr. Hudson's lines.

The circumstance over a wooden viaduct, which the force that was applied on Mr. Hudson's lines. the circumstances, what else could be expected ought to propel. That is, there was force ted? Do not locomotives with two or three applied sufficient to propel a train weighing from Bristol to York, if not from Bristol to times the weight of train perform much greater exploits on the Birmingham, Manchester and Leads Fellograms branch and consisting of pine coverage and train branch and consisting of pine coverage. and Leeds, Folkestone branch, and other consisting of nine carriages, and say that other lines: each, with passengers, weighed 4 tons, and we have 36 tons—the weight of the Atmos- From Birmingham to Glouwith fearful velocity; and perhaps it is the performance over this part that has given rise to the rumor that the Atmospheric can go at the rumor that the rumor tha miles an hour!!

"I have ascertained that the Dover train which passed the Atmospheric one in a twinkling was composed of 12 carriages, and weighed, with the locomotive and tender, about 80 tons! !- being, therefore, more than double the weight of the atmospheric train which it so easily passed. It had but one lonot the most efficient in the stock of the South

Eastern company.

Comparative Charges on Railways.

The Sheffield Mercury has an article on the comparative charges on different railways in England, which may well be read by some of our American companies—we therefore give it a place in the Jour-

" Comparative Charges .- We have frequently felt it a duty to point out the disadvantages under which the inhabitants of this district labor as to the cost of railway accomway had got some distance from Sydenham modation. We are gratified to perceive that towards London, and attained full swing of something in the way of reform has been ef-speed, a Dover train to London was seen to fected. Day tickets, at two-thirds the usual be in chase on the other parallel line of rails, fare, have been issued on the Midland as well that train being observed as it passed to whirl mark, that the railway king was the last man Whether we have the engineman distinctly heard, at the top of by our remonstrances assisted him to adopt a hoarse voice, to salute us by 'holloa, atmosmore sound principles of action than those
pheric—shall I tell 'em yo're coming?'
which induced the man 'to kill the goose' which induced the man 'to kill the goose' "The Dover train consisted of twelve car- we know not, nor is it of much importance,

train, which had got in before us, and was the lines of railway over which Mr. Hudson heavily laden, had unloaded and got clear to presides are the heaviest in their charges of any in Great Britain. We are not aware of "The following will serve to enlighten a single exception to this fact; and, in some with those out of Birmingham, with which

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The power of the railway king stretches

Miles. 14s. 0d. 10s. 6d. 10s. 0d. 10s. 0d. 7s. Od. (London and Birmingham) 521 9s. 6d. 6s. 6d.

"It will be seen that in no case in the foregoing is the excess of charge less than 40 per cent.; and from Birmingham to Gloucester, as compared with the charges on the Dover comotive to propel it, and that one, I am told line, the fares are double what the peeple are paying in the south. But this is not all .--Not only do the Midland lessees of the Glou-"These are facts, not theory; the results of cester line charge from 40 to 100 per cent. practice, not vague speculations based on un-proved principles. They confirm the state-slowest trains on all the lines above quoted ments made in your journal a fortnight ago." are those between Birmingham and Gloucester. Bradshaw's time table will bear us out in the last named fact.

"It may be supposed that we have been invidious in selecting one piece of railway, and that our complaint does not hold good in the main. We regret to say, whether we go west or come north of Birmingham, it is all the same. Let us first go to the western ex-tremity of Mr. Hudson's dominions, and then come to the north. From Birmingham to Bristol, as per returns, is 90 miles; from London to Gosport, 88 miles; from London to Dover, 88 miles.

" The fares are as under:

From London to Gosport.... 16s. From London to Dover..... 15s. 10s. 0d.

" Here, again, the slowest travelling is between Birmingham and Bristol.

"It may now be instructive to notice how much, or rather how little, the public has to be thankful for north of Birmingham. The distance from Birmingham to Sheffield is 86 miles; the reduced fares are:

Second class.....14s.

"Compare these and the Bristol charges your readers more accurately with a notion instances, the demands made upon the public Mr. Hudson has nothing to do. You can of the properties of the atmospheric propulsion. on Mr. Hudson's amalgamated lines are most travel the same distance on the Grand JuncIn the direction of London the charges are, quence.

in the two journeys:

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From Birmingham to Leeds, 23s, 18s, 6d, 5h, 20m.
From Birmingham toLondon, 20s, 14s, 0d, 4h.

"It needs not a Solon to see that Mr. Hudson's policy must be short-lived as it is short-sighted. The public voice will produce the needful reforms in a short time. It would be wise to anticipate the exercise of public opinion in a matter of such vital importance to the manufacturing parts of Yorkshire, as the best and cheapest means of travelling and transit. Railway companies have responsibilities which did not belong to stage-coach proprietors. Under the old system the road was open to all, and high fares were brought down by temporary opposition; but, under the new system, the power is concentrated. and may be wielded as an injurious monopoly, unless wisely directed and for the public advantage.

turesque and useful in a high degree, rare favorable to the company and which it is unamong modern structures, it is really a good necessary now to specify." subject for the artist's pencil. The best views is said to be at present the largest work of its kind in England. It rests on thirty-seven within one hundred yards of the viaduct.

Southern, or Vicksburgh and Montgomery (Ala.) Railroad,

The Savannah Republican, of 30th April, con- as early as possible. tained an interesting extract from the report of Wm.

It is not our wish, he says, to say or do mond. It is a bad rule to have "too many the railroad. irons in the fire' at once. It is better for communities, as well as individuals, to select a single object and pursue with united energies. If that object is a reasonable one—if its accomplishment is practicable—success is accomplishment is practicable—success is likely to follow. Whereas, if several enterprises are undertaken simultaneously—ifopin—if one in the fire' at once. It is better for communities, as well as individuals, to select a sissippi river at Vicksburg by means of the railroad conveyance to Vicksburg. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from at least two per cent. It will reduce insurance from the cent. It is a contracted in the cent. It i

from Birmingham to Boxmoor—forther than from Birmingham to Sheffield—1st clas, 15s. nary to a statement of our views in regard to the expectation of the managers to have it 6d.; 2d class, 11s. So much for the bless-the "Southern railroad company," a representative of which is now in this city for the "From this point to the Macon and West-sentative of which is now in this city for the sentative of 53 miles. The ings of amalgamation.

sentative of which is now in this city for the "From this point to the Macon and West"If we stretch further north the exactions purpose of inducing capitalists to subscribe ern railroad is a distance of 63 miles. The do not lessen. South to London from Birmingham is 112; miles; north to Leeds 113
This company holds a charter from the lemiles—say the same distance.

The stock preparatory to its organization. right to construct that connection, as well as
one to Columbus, and thence to intersect the
gislatures of Alabama and Mississippi, for Montgomery and West Point road, has been "Notice the money and the time consumed the construction of a railroad from Montgom-granted; and there is no doubt that in one the two journeys:

ery, Alabama, connecting with the Vicksburg or both these modes Montgomery will be conof Gov. Brown of Mississippi, and we have ocean, both at Charleston and Savannah. now before us, a very able and well reasoned report on the subject, from the pen of Judge Bodley, of Vicksburg, the gentleman before alluded to as being present in our city. From this report we glean the following facts, viz: The capital stock is \$3,000,000, but the company is allowed to organize, when \$500,000 have been subscribed. The charter is a perpetual one, and the state of Mississippi, to encourage the enterprize, has appropriated for the building of the road, the 2 per cent fund, amounting to about \$300,000, whenever an Viaduct over the Ouse. - The viaduct over equal amount shall have been paid in or sethe Ouse is the finest piece of architecture on cured in the state. There are other condithe Brighton railway. Uniting the picturesque and useful in a high degree, rare favorable to the company and which it is un-

The following extract from the report referred to of it are on the banks of the river below. It contains important facts which have been often sought, but not easily, if at all, obtained.

We are glad to see the movements in the south arches, each of a span of 30 feet, and rising in relation to the connection of the Mississippi with 100 feet from the water. The height of the Georgia railroads. It is a matter of vast imporabutments is 40 feet, its length 1,437 feet, or somewhat above a quarter of a mile. The Ouse is fed by two branches, one rising at Bantrudge farm, St. Leonard's forest, not far from the source of the Adurance that also takes government, in times like the present, when its gallant little army is within an from the source of the Adurance that also takes government, in times like from the source of the Adur, and the other at enemy's territory, in the immediate vicinity of a su-Selsfield, in Worth forest, and flows through Lewes to Newhaven. It is navigable to but not destined to be beaten, if attacked. With a within one the state of th but not destined to be beaten, if attacked. With a continuous railroad to the Mississippi, ample reinif deemed necessary. We hope to hear that the work is to be commenced this year, and completed

"The Southern railroad will extend from anything which might tend to draw off the Jackson, Mississippi, to Montgomery, Alaba
"In regard to freights, it will reduce the attention of the people of this region from the ma, a direct distance of 103 miles in Missisanything which might tend to draw off the Jackson, Mississippi, to Montgomery, Alaba-

tion line for 15s. as compared with 21s.; and ions are divided, and purposes distracted, a Montgomery and West Point railroad, of in a second class for 11s. 9d. instead of 14s. failure in everything must be the conseremainder of near 45 miles principally gra-

> road at Jackson, Mississippi. The purpose nected with the Macon and Western railroad. of the originators of the enterprize, is to connect the Mississippi at Vicksburg, with the Savannah lines, and is within a few months south Atlantic ports, through the railroads of Georgia. This route was alluded to in the report of the committee on internal improvements at the Memphis convention. It was also road as the only wanting link in the chain favorably noticed in the last annual message to bind the Mississippi river to the Atlantic

> > "The distances are as follows:

From Savannah to Macon .. 1904 miles, complete.

Macon to Griffin 50 Griffin to West Point, 53 W. Pt. to Montgomery 90 Montg'y, to Jackson .. 240 Jackson to Vicksburg. 46 chartered. nearly com. ci 23 complete.

Savannah to Vicksb'g. 6691 miles.

" A direct road from Macon through Columbus would reduce this distance to about

Charleston to Hamburg .. 136 miles complete. Augusta to Atlanta.....173 Atlanta to Griffin...... 51 Griffin to West Point.... 53 nearly complete. 33 chartered. West Pt. to Montgomery. 90 "nearly complete.
Montgomery to Jackson . 240 "chartered.
Jackson to Vicksburg 46 "complete.

Charleston to Vicksburg . . 789 miles.

A direct road from the Georgia railroad to connect the routes, might diminish the distance to 750 miles.

"The distance from Savannah to Vicksburg may therefore be set down at 670 miles. From Charleston to Vicksburg, at 790 miles.

" The uses of this road.

"When completed and connected with the Atlantic and Mississippi termini, it reduces the time of travel from end to end to about two days. It reduces travel between Charleston and St. Louis to six days-New Orleans, forcements and munitions might be sent to their aid three days-Galveston, five days. It brings down the time of travel between Vicksburg and Washington city to a little over four days, and New York five days. And on the com-We copy the following remarks, in regard to the pletion of the Chattanooga and Nashville rail-S. Bodly, Esq., upon which the editor makes the length and uses of this road from Judge Bodley's report: he says,

It is not our wish, he says, to say or do

We copy the following remarks, in regard to the product of the product of

enterprise which is now agitating them, in sippi, and 124 miles in Alabama, or total air burg to about ten days, of which six days common with the citizens of Burke and Rich- line 227 miles on any probable location of are allowed for the sea trip to Charleston and four for railroad conveyance to Vicksburg.

" It will enable a merchant, whose packages are usually valuable, (much beyond 50 cents per pound on the average,) to save in direct expenditure, to have his orders promptly supplied, to maintain a large rusiness upon template her noble prospect, and be true to comparatively light stocks, and to exclude from the western markets all merchants who shall persist in continuing the risks, delays sort of grand trunk with which all our other and loss of capital by the cape of Florida railroads should connect as best they could.

duce to the bale, the aggregate pounds weight better grade.

of this trade is sixty millions; or 30,000 tons "Let the main trunk cross the Androscog-

of 2,000 pounds each.

between the most important highways in the river, and along that valley run for the forks mittee of the senate, and is a valuable document-

tified, as they are with us in all respects, to the river St. Francis. be neighbors to the great west: and by this means gives assurance of an equitable management of the government of the United ed with the main trunk:

"From Bath by Brunswick, corresponding with another to connect at the same point from Rumford by Paris.

"From Gardiner by Augusta, to connect the connect at the same point from Rumford by Paris.

"These things and more does it accomplish in its general uses. To the country in which from one or more points up the Kennebec. it ruus it brings navigable waters without their overflows, and commerce without haz centrate at one point-Boston. It would ard or interruption. To that country all seem that our system ought to be to connect times of the year are thus rendered times of commerce and tavel; supplies from as far as practicable, to extend and equalize other places are cheapened, and its own the advantages. In due time the Bangor productions can reach the market at small branch would be extended by Frederickton cost and at times to suit the owner."

The report proceeds to give an estimate of the cost and income of the work. The former is put down at \$12,000 per mile, or \$2,-880,000, the latter at \$1,248,960, or, deduct-

ing expenses, at \$585,387.

Of the importance of this road, no one can for a moment doubt. That it will in time be completed, we think it highly probable, that it will be of advantage to Savannah and to the Georgia improvements in both the items of freight and travel is beyond doubt; but there is certainly no money here now to be invested at so great a distance from home. Savannah has already expended nearly \$3,-000,000 upon her own end of this line of improvements. If any money is left, prudence dictates that it should be invested in our own state, and for the development of our own resources. In endeavoring to reach too far we may lose everything. We make these remarks with the more regret, because we are other places, such as Bath and Gardiner, convinced that the Southern railroad enterprize is one which deserves encouragement, from its better harbor, of easy access at all and which under other circumstances, would receive encouragement from our people. Our columns, however, are open for any one who at Gardiner, could put up a ship to sail for may differ from us in opinion, and who may desire to press the subject upon the consideration of the public.

The better harbot, or easy access at all seasons, Portland would hold much the superiority. At a proper time, a merchant, say periority. At a proper time, a merchant, say to clumns, however, are open for any one who at Gardiner, could put up a ship to sail for may differ from us in opinion, and who may desire to press the subject upon the consideration of the public.

Railroad System for Maine.

The following article on the "railroad system for Maine," is from the Portland Advertiser:

"Suppose that Maine wake up and con-It is believed that the Montreal road may be "It will open a direct avenue for western so located, with due reference to the proper supplies for the interior of Alabama, Georgia points to receive branches, and not be essenand Carolina. These produce ordinarily tially lengthened. This would be far more over 1,000,000 bales of cotton per annum. If we estimate but 60 pounds of western produce to the bale with the country to be traversed, and

gin at Lewiston, thence run through Winof storms, wrecks, pirates or war.

northwest branch of Dead river to the bounthe remarks of Mr. Bishop Perkins, on canse It makes the South Atlantic states, idendary, in a direction for the eastern branch of intendence, published in the Albany Atlas.

"The following are some of the branches

efficiency either to 'suppress insurrection or at the same point with one from Bangor by rect," Waterville, say at or near Mount Vernon.

"Another to come in near Farmington.

"In Massachusetts, their railroads all conall by branches with one main line, and so to the extreme eastern point of the Nova Sco-tia-say to the Gut of Canso-to accommodate European emigration and travel. As to this travel, no matter between what points of Europe or North America bound—whether between England, Ireland, France or Germany and Canada, New York, Texas or California—a great point would be to choose the route having the shortest sea voyage.

" Looking ahead, it is plain that manufacturing must be the controlling business in Maine, the operatives, in a great measure, to be fed from the great west, where would be sent for a market a great proportion of the goods manufactured. The best seats for manufacturing, such as Brunswick, Lewiston, Augusta, Waterville and Rumford, would be so situated as to compete on fair terms with all

other places.

"For the export and import trade between the great interior and the broad Atlantic, would compete with Portland. To be sure,

of the Kennebec can be deepened, Augusta and Hallowell could come in for a share of the great transit trade. Such will be the untold amount of exports to come out from the great interior, that Portland alone could not well accommodate it." WALDO.

AHACVS

C c c fi fi n th

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"[Our correspondent above, introduced his article by a suggestion in reference to patronage by the state, of the ground part of his plan. But as that subject has never been discussed or mentioned in our paper, he will excuse us for leaving out the intimation on that

Cost of Canal Repairs.

The following table, showing the cost of repairs upon all the New York canals, since they were first opened in 1826, was prepared, we understand by "It gives us an interior communication throp and Redfield for the valley of Sandy Mr. Senator Denniston, chairman of the canal comworld, which is not subject to the casualties of Dead river, and along the valley of the we therefore place it on record. We take it from of storms, wrecks, pirates or war.

Mr. Perkins says:

"It is true that the expense of repairs on the canals for the last year has been perhaps greater than ever before, though after all not so great per mile as they have been at some former periods of time. To ing with another to connect at the same point show this I will read from a table prepared by Mr. Denniston, the chairm an of the canal committee in "From Gardiner by Augusta, to connect the senate, which I have examined and found cor-

The total annual cost of superintendence and repairs on each canal, from 1826 to 1845, inclusive, and the average cost per mile of superintendence and repairs on all the canals during the same time.

Erie and hamplain	Oswego.	-	Chemung	Crooked lake.	Chenango	Genesee valley.	Oneida lake	Total.	Total average pr mile.	Tota
40 miles	38 ml's.	22 miles.	37 miles.	8 ml's.	97 miles.	52 ml's.	6 miles.			
182,163		***********						\$182,162	9	440
232,472								232,472		440
225,846	\$8,637							234,483		478
232,931	13,003	8						254,433		500
896,202	12,590	5				-		221,005		200
168,240	9,170	9						180 773		200
327,302	12,259	2	9	Io Io				344 917		500
328,585	11,295	00	\$24.666					372,789		537
429,659	12,181	00	25,639	25				478 964		545
392,921	16,327	6	9.616	63				432,115		545
310,183	51,637	50	9,655	4		ň		406,115	91	545
365,406	57,908	28,539	14.569	6,214	\$19			492,144	266	694
374,713	49,360	18	13.494	4	20,809			481 774		69
297,722	24,463	S	13,382	60	17			879 769		644
364,293	34,796	2	12,401	4	15	74		460,686		649
255,687	26,406	13	23,360	9	15	10.468	\$3.370	357,898		700
322,354	31,427	15,	34,524	00	18	17	3,608	452,559		100
297,614	23,678	10	14,296	4	15	15	2,332	383,076		700
371,449	28,598	14	12,739	e3	15	15	1.636	460,330		200
399,094	46,639	14	17.978	-	18	16	1 933	500 450		200

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18,951

14,191

46,639

399,094

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AMERICAN RAILROAD JOURNAL.

PUBLISHED BY D. K. MINOR, 23 Chambers street, N.Y.

Saturday, May 16, 1846.

WANTED, the following numbers of the RAIL-BOAD JOURNAL, to complete volumes, viz:

No. 44 of volume four, for 1835;

Nos. 44 and 45 of volume five, for 1836; No. 1 of volume six, for 1837;

Or the entire volumes of those years will be purchased at subscription price, if in good order; or the far more economical. current volume will be cheerfully given in exchange for volume four or five, to any gentleman who pre-tion of engineers, as well as miners. fers a new book to an old one; and we shall be very much obliged to those who will aid us in obtaining these numbers.

The numbers may be forwarded by mail, accompanied by a letter, stating when forwarded, and the volumes may be sent by express, or other safe conveyance, at our expense.

New Method of Mining and Constructing under Water.

The peculiar situation of an extensive coal basin on the banks of the Loire, in France, has led to the invention of a new mode of operation under water, which promises to be rich in useful results, and which we wish to make known to the profession in this country

The coal deposite mentioned has been known for more than a century, but it has never been worked, as it is below a stratum of sand and gravel, through which the river Loire flows, and to all parts of which its waters have free access. It is evident that no pumping would suffice-the river itself must be pumped dry before the porous stratum could be penetrated. To meet this unusual case, Mr. Triger has contrived and carried into execution the plan to which we refer. A suitable iron pipe, somewhat like a smoke-stack, is sunk to the surface of the water, by means of a chamber and valves, or rather doors, at its upper end; this pipe is made air tight and connected with a condensing cylinder. Air is then forced into the vessel, and the workmen, who are previously introduced, continue the excavation, and the pipe is gradually lowered—the water being constantly kept out by the condensed air. In this manner the operations were continued until the water stratum had been penetrated, when the lower end was properly secured, the pumps, etc., removed, and the entrance opened. The mines were then ac-cessible, and could be worked as any others at the

perfectly comfortable, and move and work under a commence operations. pressure of two or three atmospheres, as readily as in the open air. The only change noticed is, that the voice becomes weak and the men cannot whistle.

dams. For instance: a foundation has to be laid on a rocky bottom and in a rapid current, where it would be difficult to secure the tightness of a coffer

Items from the Foreign Papers.
The Destruction of the Viaduct of Barentin, on the Havre Railroad, has excited much notice. The engineer of the road, the well known Mr. Locke, is handled rather roughly by the Frenchmen, and if the statements published in the French papers are correct, we must say that he deserves rough treatment. It seems that the viaduct was built of brick the distance of the piers from centre to centre 59 feet, and common morter was used, although the contractors remonstrated, and offered to bear a portion of the increased expense of hydraulic cement. It is said, too, that Mr. Locke had built a viaduct in England on the same plan, and that this fell likewise .-A comparison is also made between the dimensions of the Barentin and other French viaducts of undoubted stability, which certainly throws the professional skill of the English engineer into the back

all its relations to the steam engine. No philosopher of the present age is better prepared by pre-

same depth—the shaft passing through the water stratum and terminating in hard rock, was precisely after the usual amount of speeches, and a visit to in the same condition as if it had penetrated solid the famous establishment of Seraing, near which the ceremony took place, 3000 francs were ordered by ing into engineering accuracy, we presume an The apparent obstacle to this mode of proceeding the directors to be distributed to the poor of the neighborwas the danger, or even impossibility, of supporting ing places. A magnificent dinner concluded the af-

Correspondents will oblige us by sending in their life under so great pressure. Experience has proved fair. The donation to the poor is a novel idea—and that no difficulty is to be apprehended from this certainly much the best part of the ceremony. We source-except on their first entrance—the men are commend this to the special notice of those about to

Railroads in France.-The Paris correspondent

of the Boston Atlas writes under date of 1st inst,:

One of the laborers who was deaf, to his great surprise, found that he regained his hearing under this extraordinary pressure.

The success of M. Triger's process, has led to its adoption in Belgium, under circumstances of even greater difficulty. A few modifications have been made, such as the substitution of a wooden trunk of greater diameter than that of the iron one used in France, but the principle is the same.

It will be seen at once, that this mode of operation is superior to that by the diving bell, unless at very great depths; and, under certain circumstances, it is probable that it may supercede the use of coffer dams. For instance: a foundation has to be laid on

Pennsylvania Railroad.

We find the following comparative statement in dam; or in building a foundation in circumstances the Philadelphia Inquirer, and give it a place in the similar to those on the banks of the Loire. In such Journal, as it contains useful facts in convenient cases, it is highly probable that the use of condensed form for reference; and also because we desire to air would be found not only more expeditious, but repeat what we have before said, and what has been often said by others, and more recently by the Pitts-We think this to be a matter worthy of the atten- burgh Gazette, viz: that "if we presume to advise, we would recommend them to spend their means in constructing the Sunbury and Erie road, with a branch to Pittsburgh"; as, by this course, another, and the most important line of communication would be opened through Pennsylvania, with two terminations, one on lake Erie and the other on the Ohio, at Pittsburgh—thus opening a medium of communication through a region of country now wholly unaccommodated, and also between an important point on lake Erie, which has no direct and easy intercourse with Philadelphia; and which would become to Philadelphia what Buffalo is to New York. The state works. through central Pennsylvania, will meet the necessities of that region. Now let PHILADEL-PHIA, with her ample means, open a second line with its two termini, and let the Baltimore and Ohio railroad company open a third line, if it will, and then let Philadelphia, and Pittsburgh, and Cleveland, construct a railroad from the Ohio at Pittsburgh to lake Erie at Cleveland, and work it at the lowest rate of fare, and it needs no prophet, as we think, to fore-Investigation in Relation to Steam .- M. Regnault tell the results, not to Philadelphia alone, but to has been entrusted by the French academy with the the entire state of Pennsylvania. What most surinvestigation of the laws which regulate steam in prises us is, that the subject is not so viewed and acted upon by the citizens of Philadelphia.

The writer in the Inquirer says, that

pher of the present age is better prepared by previous investigations, nor more richly endowed with the necessary mental qualifications for this difficult task. The experiments have already required three years of labor, and cost 10,000 francs. The results obtained we purpose giving to our readers at our earliest convenience.

Novel Idea.—At the commencement of the works on the Liege and Namur railroad, a very imposing ceremony took place, quite different from anything to which we are accustomed in this part of the world. A very elegant silver spade, and mahogany wheelbarrow, were on the ground, and the president of the company, through Mr. Rennie, the engineer requested the inspector general of railways to break ground.

The writer in the Inquirer says, that

"The most approved locomotive engines now in use on the Reading railroad, work at an expense for motive power alone, of one mill and a half per ton per mile—the worst grade for the load being a level. Of this expense, the fuel amounts to about one-third, which is wood at \$3 per cord. The Pennsylvania railroad would very probably run through a country which could supply the engines with wood at \$1 50 per cord; this would reduce the motive power a level. Every 20 feet rise in the road would cost one motive power additional—so that a road of 45 feet grades would require 3; mills per ton per mile for motive power. To this we add for the expense of maintaining cars, which would be at the same rate on all roads, viz: 2; mills per ton per mile.

To make a complete comparison between differ-

Pennsylvania railroad, from Pittsburgh to delphia—distance, 336 miles—grades, heaviest:	Phila 45 fee
Mills.	Per ten
Motive power	
Cars	Pieter.
5.75	\$1 93
The common rule is to double the working expense for toll	1 93
ing expense for tour	1 3.
Let us the contract the state of the contract the	\$3 80
Baltimore and Ohio road, from Pitts- burgh to Baltimore—distance, 342	17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
miles—grades, 60 feet: Motive power	
-10.4	\$2 25
Toll at an equal amount	31 2 2
en adam tua ban bestera a a a a a a a a	\$4 46
Pennsylvania road extended to Cleve- land would make a distance of 466 miles—suppose grades not over 45 feet:	· · · ·
Motive power would cost	
5.75	\$2 68
Tolls 5.75	2 68
additional and Carolina contract of the	\$5 36
New York and Eric railroad, extend- ed to Cleveland, 640 miles—grades,	apo oc
66 feet: Motive power, by the same rule 4.30	
Cars	out no is
6.80	\$4 35
Doubled for tolls	4 35
Tauche da la de viva tilance de la cultura	\$8 70
From Cleveland to New York by the lake and canal—distance, 714 miles:	th victory
and canal—distance, 714 miles: Working rate of transportation, 5 mills per ton per mile on all these waters	\$3 57
Two agency charges for transhipping at Al- bany and Buffalo, with drayages included, cannot be maintained under 50 cents per	
ton each	1 00
	1 00
Foll to the canal, 364 miles, at the same	\$4 57
rate as to the road, viz: 5‡ mills per ton	
per mile	2 09
	\$6 66
The Pennsylvania road, extended to St. Louis, would make a distance of about	\$0 Ot
1000 miles—half the distance with grades of 45 feet, the other half with grades of 15 feet:	
Motive power 2.5	
Cars	
Sambled for tell	
	\$10 00
From St. Louis to New York, by sea, the distance is 3000 miles: The lowest rate of freight across the Atlan-	1111
tic in large ships, is 1 of a cent per ton per mile, (3000 miles,) equal to \$10 00	
shipping at New Orleans and for	W
insurance, at least 1 50	11 50
Fime for going from St. Louis to	11 50
New York by sea20 days. Forgoing to Philadelphia	
by railroad	r. hour.
2 4 20 4	-
North Branch Canal.—The Danville De	

says that the water has already been let into the upbe in a navigable state in a few days,

Railroads and the U. States Government. construction of railroads in those states where the neral government, under the clause authoripublic lands are yet unsold, in the Journal of Com- zing it 'to dispose of and make all needful merce of May 6th. Of the propriety, justice and rules and regulations respecting the territory "constitutionality" of the United States government and other property belonging to the United constructing, or aiding in the construction of rail- States." roads, or canals, or other works, in any of the states, which, when made, shall-promote the safety, prosperity and happiness of the people of the country, we have never entertained a doubt; even though some of those who are deemed the wise and great men of the course of Mr. Calhoun in it, have contrithe nation have pretended to see great danger to the constitution for the government to aid in such works Without laying claim to any great sagacity, or research in constitutional matters, or to an extraordinary amount of patriotism, we are always inclined to watch closely those men who make great pretensions to more than an ordinary share of watchful care and affection for the constitution. They are the first to oppose or approve of measures—on constitutional grounds of course-according to circumstan ces; and they are always prating of their consistency

If the United States government were to construct a line of railroad from Maine to Georgia, and thence to New Orleans, on the south and southwest; and another from Maine to Chicago, and St. Louis on the north and northwest-or contribute one-half the cost of a first rate road, to those companies which will construct them, and guarantee to carry the mails, and transport United States troops and munitions of war without charge, and passengers at low rates, to be regulated every five years, or oftenerthus benefitting all, both in peace and in war, by increased facilities for business, and at the same time the most efficient system of defence, that can be devised, for an extended frontier like ours-they would not, in our opinion, transcend the spirit, or letter either, of the constitution; but would keep more within bounds than those who use it as though it were made by Day, or Goodyear, of India rubber.

We hope that congress will contribute largely of the public lands in aid of railroads through the on this subject his claim to consistencystates at the west and south, where the population is sparse, and the people unable to build them. We hope also that there will not be longer delay in making an appropriation for the construction of a canal at the Sault St. Marie, which will allow of the passage of large vessels into lake Superior. This

important work has been quite too long delayed.
The article in the Journal of Commerce is as

" Local Internal Improvements .- An important discussion has just taken place in the United States senate, on this subject, in which the extent of the power and authority of the general government over it has been defined, perhaps it may be said authoritatively

the question that an appropriation for a local was unconstitutional; no power to raise revenue for such a purpose having been contemplated.

"The power to aid a local improvement hrough the public lands is of a different character, inasmuch as it does not involve the adjacent lands.

"This, in our judgment, is a legitimate We find the following remarks, in relation to the and proper exercise of the power of the ge-

> "To the renewed application of this power now to such improvements, and the general acquiescence in it by the country, the movements of the Memphis convention, and

buted in no slight degree.

" A recognized friend of internal improvement to their fullest extent, even when descending from his ground and advocating sound views of the power of the government in regard to them, would have far less influence in obtaining the concurrence of the nation, than a well known opponent of the doctrine of implied construction would have, in taking a decisive step in favor of improvements coming within the power of Congress,

and perhaps before the subject of doubt.
"Such is the tendency of the human mind. Notwithstanding, however, the manifest difference between the raising of revenue for improvements under a constitution not authorizing it, and the act of a proprietor devoting part of his land, over the deposition of which he has full power towards improvements which are to benefit the whole estate, Mr. Calhoun is charged by Mr. Niles with inconsistency in regard to the doctrine of internal improvements, because, forsooth, he has been opposed to devoting revenue to the purpose.
"To this it was triumphantly answered,

that Mr. Calhoun had voted to give every alternate section to the state of Illinois to aid in building her canal, and has always done so on similar applications; thus vindicating matter made of far more importance in this

country than is at all necessary.

"The exercise of this power within reasonable limits, is certainly expedient, and will contribute greatly to the advantage of the west, by helping to construct avenues for their growing trade; and the east ought not to hesitate about the exercise of a power from whence not only those results will flow, but others calculated to bind us together in bonds of greater amity."

New York and Eric Railroad.

We give below the result of the legislative proceedings at Albany, upon the bill to allow "The veto applied to the Maysville road, this road to select the most favorable route and its approval by the country, determined and to build the road where it will cost the least and carry freight the cheapest. It will road within the limit of a particular state be seen that 107 members only, out of 128 voted upon the bill. Where were the other TWENTY ONE members? Can any one inform the friends of the road upon what important business they were absent from their seats?-Can they answer to their own consciences for question of the application of revenue, but this neglectof an important duty? We should simply that of the right of a proprietor of like to see the reasons of each absentee set out lands, having full power over their manage- at full length, that the public may appreciate ment, to apply a part of them towards im- their conduct as it merits. That they may er level, and it is expected that the whole line will provements which are for the benefit of the judge of the relative importance of the private and public duties of those who assume to act

as legislators-and that a just degree of censure may be visited upon them for neglecting duties of such magnitude, of such vast importance to the business community, but especially to the southern part of the state.

Of those who openly opposed and voted against the measure, we will only say that it is very difficult for some men to feel that great public measures should be considered and acted upon without regard to individual or local interest-of others we might perhaps say that they should be excused for their errors, on the score of inability to judge between right and wrong-not so, however, with those who elected them to discharge duties so far above debate. their comprehension, they deserve no better servants.

It will be recollected that, on the third reading and final passage of this bill, it was lost by one vote, and that vote was from this city! a motion to reconsider was made, which motion came up for consideration on Friday the at a distance duly appreciate the extent and impor-1st inst. and with the following result.

ASSEMBLY-May 1.

Mr. Cooper called for the special order, being the third reading of the general manufac-

turing law. Mr. J. Young moved that this order be suspended until the vote could be taken on the bill in relation to the New York and Erie railroad. Agreed to.

The question was then taken and the house

refused to reconsider by the following vote:
Ayes—Messrs. Albertson, Angle, Barton,
Beach, Benedict, Blakely, Blodget, Bloss,
Boughton, Boyce, Burnell, Bush, Chatfield,
Chase, Clark, Coe, Collins, Cook, Cooper,
Cornwell, Cost, Develin, Dorrance, C. Drake, Durfee, Ensign, Fleet. Foote, Foster, French, Fuller, Fullerton, Graves, Hall, Harris, Hay-ner, Haywood, Heermance, Hover, Johnson, ner, Haywood, Heermance, Hover, Johnson, Kingman, Lake, S. Lawrence, Low, Ludlow, Marvin, E. Marshall, O. F. Marshal, McClellan, J. Miller, Montgomery, Moore, Nolton, Philips. Pitts, Primmer, Rathbun, Rice, Rogers, Searl, W. S. Sherwood, Small, Smith, Spofford, Stevenson, Storrs, J. R. Thompson, R. R. Thompson, Tilden, Titus, Townsend, Viele, Walbridge, Ward, Wisner, Woodruff, Woodworth, Worden, A. W. Young, J. Young—90.

Noes-Messrs. Baily, Baird, Cole, R. Drake, Noes—Messrs. Baily, Baird, Cole, R. Drake, Eysaman, Gardner, Gregory, Grinnel, Hawks, Huxton, King, N. Lawrence, Lawyer, Lewis, Liddle, Loomis, Morehouse, Oliver, Pierce, Sands, Seacord, Speaker, Stewart, Tefft, Van Burgen, Voorhees, Watson—27 So the bill was lost.

Mr. Worden moved to recommit the bill to the standing committee.

The chair said it was now too late. Mr. Pierce asked consent to give notice of a bill in relation to the New York and Erie railroad-providing for an extension of the time

to expend \$750,000. Mr. Chatfield suggested that unanimous consent be given to refer back the petitions

and papers.

Mr. Pierce thought that objectionable.

Mr. Worden explained the action of the committee on this bill.

Mr. J. Young said the chair was right. The only way to reach this matter was to suspend the rules. But he did not believe any bill could be drawn that would meet the approba-tion of certain gentlemen, who evidently de-sire to defeat the road.

ected to. Leave however was given. Mr. Chase thanked the house for standing by this bill as they had, notwithstanding the influence which has been brought to bear around this capitol to defeat this bill. It had been insimuated that the New York and Eric railroad co. had entered the field in Chemung to defeat Col. Young. It was false, and yet creatures out of the house, who crawled at the footstool of power, had gone around among members here with that story, to defeat the bill. They had succeeded and now let them take the res-ponsibility, and he would tell them the people of the southern tier of counties would remember them.

The chair here peremptorily arrested the

The house then resumed the consideration of the manufacturing law.

Pittsburg and its Lines of Communication Well may the editor of the Gazette ask "where is there a city possessed of more advantages, present and prospective for an immense trade?" How few tance of the resources of Pittsburg?

Sandy and Beaver Canal.—This very important work to Pittsburg and Pennsylvania has been too much neglected and overlooked by our citizens. In the arduous struggle for western rights, in regard to the "right of way," we have forgotten almost that another work scarcely less important to us, has been steadily and rapidly prosecuted. We would do well therefore, to turn our attention somewhat to the west, and examine the facilities for transportation, travel, and commerce, soon to be opened up by the completion of the above named work.

The western terminus of the Sandy and Beaver canal is at the town of Bolivar, on the Ohio canal, immediately on the west bank of the Tuscarawas river, in the county of Tuscarawas. Its eastern terminus is at miles. The whole line is now under conwestern section, from New Lisbon to Bolivar, will be finished during next season.

This improvement runs through a fine agricultural region, and the best wheat district seek a market at or through Pittsburgh.flour, wheat, bacon, pork, lard, and other produce of the rich vallies of the Muskingum Ohio canal to Cleveland, and find a market at adelphia, by this canal and the Pennsylvania main line, than it is to New York by the tions. lakes. Add to this, that we have several

Mr. Chase desired to speak, but it was ob- New York line, and it is seen that a large portion of the produce of the interior of Ohio will seek a market through this city. In 1844, there were shipped on the Ohio canal, at seven ports, 275,576 barrels of flour, 1,534. 075 bushels of wheat, 3,614,448 pounds of bacon and pork, 56,034 barrels of pork, and 3,462,462 pounds of lard, making in all 84,-961 tons. All this produce was shipped from points south of the intersection, except that from Massillon, and a large portion of the trade of that place will naturally find an outlet by this improvement. When this canal is finished, the bulk of this immense trade will pass through Pittsburg, provided our ca-nal commissioners pursue a liberal policy on our main line.

But this aspect of the case is not the most important one to Pittsburg. The completion of the Sandy and Beaver canal opens up Piusburg, for the sale of her manufactures and heavy merchandize, such as groceries, etc., the whole country watered by the Ohio canal and its tributaries—a country, which for fertility of soil, rapid improvement, and ability for production of produce, and cousumption of our peculiar manufactures, is not exceeded in the Union. It includes about one half of the great producing state of Ohio, and decidedly the best wheat growing section.-This trade must add greatly to our prosperity, and will place Pittsburg on a high elevation as a great produce market.

A line of steamboats will be ready to be put on this trade this fall, between Pittsburg and the outlet of this canal, as soon as water is let into the eastern section of the work, and when the whole line is finished, we predict more produce will arrive at Pittsburg from that quarter than from any other at present open to us.

Here let us pause a moment and survey the mouth of Little Beaver on the Ohio river the various lines of communication radiating about forty miles below this city. It runs to this point, pouring their crude materials through the counties of Columbiana, Carroll, and produce into our lap, and carrying off and part of Stark. Its length is about fifty our manufactures and merchandize. On the east we have our main line of improvement tract, and the eastern portion, from New Lisextending to Philadelphia. On the southeast bon to the Ohio river will be finished the Monongahela slack water navigation, coming fall, probably in September. The bringing to our doors the produce of that rich valley, and connecting us with the National road and with Baltimore. To this we expect soon to add the Pittsburg and Connellsville railroad. On the southwest we have the in Ohio, the produce of which will naturally ohio river, on which ply hundreds of steam-seek a market at or through Pittsburgh.— But this is not its chief recommendation. It country watered by the great rivers of the intersects the Ohio canal at a point so far west. On the west, the Sandy and Beaver south of Cleveland, as to secure to it nearly canal will soon connect us with the rich all the trade of that great improvement south of its intersection. The principal part of the northwest, the Cross-cut canal connects us flour, wheat, bacon, pork, lard, and other proland. On the north, we have the Erie exand the Sciota, which are transported on the tension, connecting us with our northwestern Ohio canal to Cleveland, and find a market at counties and with Erie, and on the northeast, New York, is shipped at points south of this the Allegheny river, the trade of which is all intersection; and when it arrives at the junc-tion, at Bolivar, it is 288 miles nearer to Phil-pig metal, and carries off in return our manufactures and merchandize of all descrip-

Taken as a whole, where is there a city weeks earlier and later navigation than the possessed of more advantages, present and

prospective, for an immense trade? Where is there one which commands a wider extent of country, the resources of which are only partly developed? We could enlarge much here, did room permit, but we must forbear. We may say, however, that few persons abroad are aware of the extent and resources of the country of which Pittsburg is the cen-tre, and which will inevitably make this one of the chief interior cities of the Union-not only in manufactures but in commerce. As to manufactures, take every thing into consideration, her position is unrivalled in this country or any other.

We ask the privilege of endorsing the sentiments contained in the following well expressed paragraph from the pen of the accomplished editor of the Phi-

ladelphia U. S. Gazette.

"Fulton,—A correspondent of the N. York Gazette earnestly recommends to the public the duty of erecting a statue to Robert Fulton. It is a good idea—Fulton's services deserve such a memorial. But besides being a man of genius and patriotism, Ful-ton was a husband and a father, and had all the good feelings that belong to those important relations. bill has been before congress for many years, appro-priating a small sum io pay to the heirs of Fulton a sum honestly due to that great man. Let that debt be paid. Let the nation erect that monument of its own justice. Let the bread be first given, and then

The Approaching Exhibition of American Manufactures at Washington begins to attract general attention, and we are glad to see that the Virginia papers are stiring up the citizens of the old dominion to send some of the products of their industry, that she too may be represented in the grand convention of American manufactures!

The Philadelphia U. S. Gazette, in connection with this movement, recalls the following historical

"Many years since, at one of the early exhibitions of the Franklin Institute, an elderly gentleman of dignified appearance, and remarkable simplicity of manners, was seen moving slowly though the several rooms and examining articles of beauty and ral rooms and examining articles of beauty and with great care. Here was a quantity of printed callcoes from Rhode Island, there samples of beautiful sheeting from Massachusetts, broadcloths of great delicacy, blankets, and other cotton and woolen fabrics inviting his applause. He looked at and admired the well finished cutlery, and the rich silver ware that decked the central table. Everywhere his eye detected something to approve. It was pleasant to see the interest which the venerable stranger manifested in all he saw. At length his eye caught a label on something laid almost out of view. He stepped rapidly forward, took up the article, lifted the pendant paper, and read, 'Manufactured by Richmond, Virginia.' A tear dropped from the eye of the venerable man, as he read the last word. It seemed to be a feeling of pride, and not of grief, that moved him.

"'Who is that old gentleman?' asked a person who had observed his emotion.

who had observed his emotion.

"'That,' said the attendant, as he lifted his hat,
'is Chief Justice Marshall.'"
Chief Justice Marshall was an American—a

whole American—and nothing but an American; but he loved old virginia, and he felt proud to see her taking a step towards her true place in the cause of national independence.

The Southern Railroad Company.—Attention is called to the notice of the opening of the books for subscriptions to the capital stock of this company, which will be found among our advertisements.— This road is to connect the Mississippi at Vicksburg This road is to connect the Mississippi at Vicksburg with the Alabama at Montgomery, and thus, with the roads already completed and in progress, to open an uninterrupted communication between the Mississippi and the southern Atlantic cities, through the heart of the great cotton region. We hope to be able to present the merits of this great enterprize more fully hereafter.—Charleston Mercury.

Railroad Incident.—A young fellow travelling in one of the counties in England, found that the only senger in a first class car was a beautiful young passenger in a first class can who had, with whom he was quite smitten, and to whom he was quite smitten, and to whom lady, with whom he was quite smitten, and to whom he made himself very agreeable during the travel. Not being able to ascertain her name, he presumed to steal a kiss; and when the car arrived at Birmingham she gave the gentleman in charge of the police, and made a complaint against him for the assault,—precisely the thing he wanted. He learned her name and address—paid the fine—adopted means to be introduced plead his suit—and was finally accepted by the lady, after a courtship commencing in a manner so very singular. The Hereford Times vouches for the truth of this aneedote.

Reduction of Fare.—It will be seen that a material reduction in the rates of travel has been made on the Baltimore and Susquehanna railroad. Passengers are now conveyed between Baltimore and York, Pa., a distance of sixty miles, for \$1 50, in three hours and a half; and to other portions of the road at proportionable rates. We doubt not that the reduction will be followed, as it has been in all similar to the production will be followed, as it has been in all similar to the production will be followed. lar cases, by an increase of travel and an increase of profits.—Ball. Am.

Fare to the National Fair.—While every one seems ready to admit that it would be proper to reduce the charges for travel on the railroads between New York and Washington, during the approaching great national fair, we are not apprised that any positive movement on the subject has been made towards effecting the object. We recur to the matter again, in the hope that speedy and definite favorable action may be taken by the railroad companies in reference to it. The rates suggested a few days since—ten dollars for the trip from New York to since-ten dollars for the trip from New York Washington and back, six dollars from and back to Philadelphia, and two dollars from and back to Baltimore—would set additional thousands in motion, and add materially to the revenues of the railroad companies.—Balt. Am.

Montreal Railroad.—We are happy to announce to our readers that a convention has been entered in-to by the St. Lawrence and Atlantic railroad companies, by which it is agreed that the St. Lawrence terminus of the road shall be on a wharf extending to the navigable waters of the St. Lawrence opposite Montreal, and the Atlantic terminus shall be on a wharf extending to the navigable waters of Portland harbor. The work is to be commenced without de-lay, and to be completed within a stipulated time.— It is settled that the road shall be of one uniform construction, and be built on the same plan or sys-tem. It provides a mode of determining the point of junction and connection at the boundary of Canada, and stipulates within what time the road shall be completed. It provides for a uniform system of management and operation, and regulates the mode of adjusting amicably all differences that may possibly arise between the two companies .- Port

Canada Railroads.—The application for a renewal of the forfeited charter of the company that proposed to build a railroad from opposite Buffalo to Detroit, has been rejected in the Canada parliament. The Hamilton company have succeeded in obtaining a charter to carry their road from Detroit river, and from Hamilton to Troopto. These reriver, and from Hamilton to Toronto. These results are highly favorable to the project of an extension of the Lockport and Niagara Falls railroad to Rochester or Batavia. It must tend to give it a new impetus.—Niagara Dem.

Danville Affairs.—Eight Hundred Tons per month.
—During the month of April, the rolling mill of the
Montour iron company, at this place, made and finished eight hundred tons of railroad iron. As the water is coming into the North Branch canal, and the other divisions of the public works are now in navigable order, in a short time the several thousand navigable order, in a short time the several thousand tons of iron made at Danville during the past winter, will be forwarded to tide water, and thence eastward. Could the iron, lumber and produce travel of this region take the Pottsville route, the Reading railroad would find an increase of business which, perhaps, they could not now accommodate, but which they might attend to with interest, when the Schuylkill canal is widened.

The Pittsburg papers contain a notice anouncing that books of subscription to the Pittsburg and Connellville railroad are about to be opened, and the Pittsburg Chronicle, alluding to the subject,

Our citizens can then show the amount of interest which they feel in a railroad connection with Baltimore. The charter of this road authorizes it to be constructed to the state line. We need not wait until July, 1847, before we commence a railroad towards Baltimore.'

This is the bill which is intended as a substitute

for the right of way, and which was smuggled through at the close of the session.—Philadelphia

Wiconisco Canal and Lykens Valley Railroad.— The Halifax (Dauphin county) Herald, has the following information in regard to these improve-

nents:

'The contractors have about finished their work on the Wiconisco canal. The company have some repairs and alterations yet to make before the water will be let in, all of which may be done in two months—when the citizens residing along the line will, after so many suspensions and hope deferred, realize their wisher

The Lykens Valley railroad company have nearly completed their arrangements for the immediate construction of this road. A full corps of engineers are busily engaged in locating it, and timber, iron and locomotives have been contracted for. It is expected that the road will be completed in the

early part of the fall.'

Plank Road.—The work on the plank road be-tween Salina and Central Square has been com-menced in earnest. Two sections of the road are already completed, and the whole, it is expected, will be finished by the first day of July. All who are acquainted with the road between those places will rejoice to know that such an improvement is so near completion. The specimens finished are excellent. It has been contemplated to lay down another track; but our opinion is, that one will be quite sufficient, and that a saving may be made by reserving the materials provided for that purpose to repair the present track when needed.—Black River

Wanton Mischief.—Some miscreant threw a piece of iron into the driving wheels of the Montour rolling mill, on Wednesday night, when the machinery was in motion. The concussion produced was frightful to all hands in the mill. The engineer stopped the engine, and the lump of iron was taken out of the wheel, without having broken any of the machinery. Fifty dollars reward is offered by the proprietors, to any person who can find out who the villian is that thus endangered the lives of the hands and attempted to break the works.

The Illinois and Michigan Canal.-The trustees will remain until Thursday, completing the preliminary arrangement, preparatory to putting the entire work, including the feeders, under contract, and to receive from the guarantors of the delinquent Illinois subscribers to that loan, the instalment due upon such subscriptions and remaining unpaid.

The present quarterly estimate due contractors for work amounts to \$127,000, which will be paid on Friday. We learn that the board have decided to make 60 day payments hereafter, instead of 90 as heretofore, as the work progresses.

Capt. Smith and Mr. Leavitt express themselves pleased with the situation and progresses of the work

leased with the situation and progress of the work, under its present efficient charge in the engineer de-partment; and it is confidently anticipated that the line will be in navigable order on the 4th of July,

Capt. Smith and Mr. Leavitt leave for the east on Thursday, previous to which time a decision will be made by the board relative to the feeders.—Chicago Journal, April 28.

• Notwithstanding this assertion, we learn that contracts are outstanding for the completion of different portions of the canal, including some locks, in September, 1847; and that the water cannot be let into the canal till after that period.—Journal of

road.

From Kingston, on this road, there is a tri-weekly line of stages, which leave on the arrival of the cars on Tuesday, Thursday and Saturday, for Warrenton, Huntsville, Decatur and Tuscumbia, Alabama, and Memphis, Tennessee.

On the same days, the stages leave Oothcaloga for Chattanooga, Jasper, Murfreesborough, Knoxville and Nashville, Tennessee.

This is the most expeditions route from the cast to

This is the most expeditious route from the east to any of these places.

CHAS. F. M. GARNETT Chief Engine

Atlanta, Georgia, April 16th, 1846.

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Atlanta, Georgia, April toth, 1646.

All ROAD IRON—500 TONST RATLS
width of base 4 inches; width of top, 21 inches;
length of bars 15 and 171 feet. Apply to,
A Steam Pile Driver—built by "Dunham & Co."
—in complete order; has never been used, and for sale a bargain. Cost originally \$5,000. Also 12
Railway Passenger Cars, that have never been used which will be sold a bargain.

DAVE BROOKS & CO.,
April 11.

3* Wall street

39 Wall strest

TO LOCOMOTIVE AND MARINE ENgine Boiler Builders. Pascal Iron Works, Philadelphia. Welded Wrought Iron Flues, suitable for Locomotives, Marine and other Steam Engine Boilers, from 2 to 5 inches in diameter. Also, Pipes for Gas, Steam and other purposes; extra strong Tube for Hydraulic Presses; Hollow Pistons for Pumps of Steam Engines, etc. Manufacture t and for sale by
MORRIS TASKER & MORRIS,

Warst ouse S. E. corner 3d and Walnut Sts., Phila delphia.

AWRENCE'S ROSENDALE HYDRA-dulic Cement. This cement is warranted equal to any manufactured in this country, and has been pronounced superior to Francis' "Roman." Its value for Aqueducts, Locks, Bridges, Flooms and all Masonry exposed to dampness, is well known, as it sets immediately under water, and increases in colidity for years.

as it sets inhumands solidity for years.

For sale in lots to suit purchasers, in tight papered barrels, by

JOHN W. LAWRENCE,

142 Front street, New York.

Orders for the above will be received and promptly attended to at this office.

RALSTON & CO., NO. 4 A. South Front St., Philadelphia, Pa.

Have now on hand, for sale, Railroad Iron, viz:

180 tons 21 x 1 inch Flat Punched Rails, 20 ft. long.

25 " 24 x 1 " Flange Iron Rails.

75 " 1 x 1 " Flat Punched Bars for Drafts in Mines. A full assortment of Railroad Spikes,

Boat and Ship Spikes. They are prepared to exe-cute orders for every description of Railroad Iron and Fixtures.

PRING STEEL FOR LOCOMOTIVES,
Tenders and Cars. The Subscriber is engagep in manufacturing Spring Steel from 11 to 6 inches in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and wherever used, its quality has been approved of. The establishment being large, can execute orders with great promptitude, at reasonable prices, and the quality warranted. Address

quality warranted. Address
JOAN F. WINSLOW, Agent,
Albany Iron and Nail Works,

Trains leave Lexington for Frankfort daily, at 5 o'clock a.m., and 2 p.m.

Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fare \$1.25.

On Sunday but one train, 5 o'clock a.m. from Lexington, and 2 o'clock p.m. from Frankfort.

The winter arrangement (after 15th September to

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and ma, 9, from Frankfort, other hours as above. 351y

THE WESTERN AND ATLANTIC Railroad.—This Road is now in operation to Oothcaloga, a distance of 80 miles, and connects daily (Sundays excepted) with the Georgia Railbest Indian Ink for the above purposes. It does not smear with India rubber or wash off with water. It smear with India rubber or wash off with water. It flows freely from the drawing pen, and never corrodes or encrusts it. It may be used on a plate or slab, with a camel's bair brush, diluting it with water, or thickening it by drying, as required. It has the advantage of being ready for immediate use. Sold in conical-shaped bottles, convenient for using from, without any stand, at 15 cents each.

STEPHEN'S WRITING FLUIDS.

These compositions, which have so remarkably extended the use of the STEEL PEN, are brough to great perfection, being more easy to write with, more durable, and in every respect preferable to the ordinary ink. In warm climates they have become

They consist of a Blue Fluid, changing into an intense Black color.

A Patent Unchangeable Blue Fluid, remaining a

deep Blue color.
A Superior Blue Ink of he common character

A brilliant Carmine Red, for Contrast Writing.
A Carbonaceous Record Ink, which writes instantly black, and being proof against Chemical Agents, is most valuable in the prevention of frauds.
Also, a new kind of MARKING INK for Linen and Inkstands adapted for preserving Ink from

evaporation and dust.
Sold in Bottles of various sizes, by all Stationers

and Booksellers.

and Booksellers.

Be sure to ask for Stephens' Writing Fluid.

N. B.—These unchangeable Blue Fluids are Patent Articles; the public are therefore cautioned against imitations, which are infringements, to sell or use which is illegal.

or use which is illegal.

Stephens' Select Steel Pens.

The utmost possible care having been bestowed upon the manufacture of these articles, so as to propore the highest finish, they can be confidently recommended, both for flexibility and durability.

All the above articles are prepared by Henry Stephens, the inventor, No. 54 Stamford-street, Blackfriars road, London, and sold by Booksellers and Stationers in bottles of various sizes, and may be had wholesale from the agents in Boston, New York, Philadelphia, Baltimore, Washington, Charleston, New Orleans, and St. Louis.

Wm. W. Rose, Wall-street, 'New York; ismy general agent in the United States.

TALUABLE PROPERTY ON THE MILL.

VALUABLE PROPERTY ON THE MILL.
Dam For Sale. A lot of land on Gravelly
Point, so called, on the Mill Dam, in Roxbury,
fronting on and east of Parker street, containing

68,497 square feet, with the following buildings thereon standing.

Main brick building, 120 feet long, by 46 ft wide, two stories high. A machine shop, 47x43 feet, with large engine, face, screw, and other lathes, suitable to do any kind of week.

corn oven.

Store house—a range of buildings for storage, etc.,

200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

Also—A lot of land on the canal, west side o

Parker st., containing 6000 feet, with the following buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two sto-

Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co., 1100
Finite adelphia.

A. S. MARVIV, General Agent, 1384 Water st., N. Y.
Also by Isaac Bridge, 76 Magazine street, New Orleans.
Also by Lewis M. Hatch, 120 Meeting street, Philadelphia.

Charleston, S. C.

RICH & CO'S IMPROVED PATENT SALAMANDER SAFES .- Warranted free from dtampness, as well as fire ar

Paricular attention is invited to the following certificates, which speak for themselves:

Certificate from Mr. Silat C. Field, of Vicksburgh,

On the morning of the 14th ult., the store owned and occupied by me in this city, was, with its con-tents, entirely consumed by fire. My stock of goods consisted of oil, resin, lard, pork, sugar, molasses, liquors, and other articles of a combustible nature, in the midst of which was one of Rich's Improved Patent Salamander Safes, which I purchased last October of Mr. Isaac Bridge, New Orleans, and which contained my books and papers. This safe was red hot, and did not cool sufficiently to be opened until 16 hours after it was taken from the ruins. At the expiration of that time it was unlocked, when its contents proved to be entirely uninjured, and not even discolored. I deem this test sufficient to show that the high reputation enjoyed by Rich's Safes is well merited. S. C. FIELD.

that the high reputation enjoyed by Rich's Safes is well merited.

Vicksburgh, Miss., March 9th, 1846.

Certificate from Judge Battaile, of Benton, Mississippi.

In October last I purchased one of Rich's Improved Salamander Safes, which was in the fire at the burning of my law office, and several adjoining buildings in this place, on the 17th of November last, at about half-past one o'clock A. M. of that day. The building was entirely consumed; and I take pleasure in stating that ray papers in said safe were preserved without injury. A receipt book which was in said safe, had the glue drawn out of its leather back by the heat, and the back broken; but the leaves of the book, and the writing thereon, were entirely uninjured; and some of the writing which was of blue ink, was also left wholly uneffaced and not in the least faded. Said safe was by the fire heated perfectly red hot, and I do not hesitate to say, that said safe is a perfect security against fire. But the safe tumbled over during the lire, and being heated red hot, the outer sheeting of the door became pressed in, and the bolts of the lock bent, so that it could not be unlocked, and I had to have it broken could not be unlocked, and I had to have it broken

could not be unlocked, and I had to have it broken open.

John Battalle.

Benton, Miss., December 27,1845.

Still other Tests in the Great Fire of July 19, 1845.

The undersigned purchased of A. S. Martin, No. 1381 Water street, one of Rich's Improved Patent Salamander Safes, which was in our store, No. 54

Exchange place. The store was entirely consumed in the great conflagration on the morning of the 19th inst. The safe was taken from the ruins 52 hours after, and on opening it, the books and papers were found entirely uninjured by fire, and only slightly wet—the leather on some of the books was perched by the extreme heat. (Signed,)

Pattern shop, 35x32 fe, with lathes, work benches, Work shop, 86x35 feet, on the same floor with the pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts, furms, pulleys, &c., large and small trip hammers, turnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry.

Foundry, at end of main brick building, 60x45; jeet two stories high, with a shed part 45 x20 feet, containing a large air furnace, cupola, crane and corn oven.

Store house—a range of buildings for state of the state of the state of the confirmation of the opening it, the books and papers were found not to bave been touched by fire. I deem this ordeal sufficient to confirm fully the reputation that Rich's safe has already obtained for preserving its contents against all hazards. (Signed.) preserving its contents (Signed,) WM. BLOODGOOD.

New York, 21st July, 1845.

The above safes are finished in the neatest manner, and can be made to order at short notice, of any size and pattern, and fitted to contain plate, jewelry, etc. Prices from \$50 to \$500 each. For sale by A. S. MARVIN, General Agent, 1381 Water st., N.Y.

Also by Isaac Bridge, 76 Magazine street, New Orleans.

OSTON AND ALBANY,-RAILROAD,-Fare Reduced.

Commencing April 1st.

Senger trains leave daily, Sundays excepted—
Boston 7 p. m. and 4 p. m. for Albany.
Albany 6 and 2 for Boston.
Springfield 7 and 1 for Albany.
Springfield 7 and 1 for Boston.

Springfield 7 and 1 for Boston.

Boston, Albany and Troy: Leave Boston at 74 a. m., arrive at Springfield at 12 m., dine, leave at 1 p. m., and reach Albany at

Leave Boston at 4 p. m., arrive at Springfield at 8 p. m., lodge, leave next morning at 7, and arrive at Albany at 194 m.

Leave Albany at 64 a. m., arrive at Springfield at 4 m., dine, leave at 14 p. m., and arrive at Boston

64 p. m.
Leave Albany at 24 p. m., arrive at Springfield at 84 p. m., lodge, leave next morning at 7, and arrive at Boston at 12 m.
The trains of the Troy and Greenbush railroad trains at Greenbush.

The trains of the Troy and Greenbush railroad connect with all the above trains at Greenbush.

Fare from Boston to Albany, \$5; fare from Springfield to Boston or Albany, \$2.75.

Boston and New York, via Springfield: Passengers leaving Boston at 4 p. m., arrive in Springfield at 8 p. m., proceed directly to Hartford and New Haven, and thence by steamers to New York, arrivers at Exclusive a m.

Haven, and thence by steamers to New York, arriving at 5 o'clock a. m.

For Buffalo: the trains for Buffalo leave Albany at 7½ a. m. and 7 p. m., arriving at Buffalo at 8 a. m. and 8 p. m. next day. Returning, arrive at Albany at

4 a. m. and 4 p. m. New York and Boston, via Albany: the trains from New York and Boston, via Albany: the trains from Boston arrive at Albany in season for the 7 o'clock boats to New York. Returning, the boats, leaving New York at 5 and 7 p. m., reach Albany at 5 a. m., in ample season for the morning trains to Boston.—Steamboats also leave Albany at 7 a. m. and 5 p. m. and stop at the usual landing landing pirces upon the river. the river.

The trains of the Springfield, Hartford and New Haven railroad, connect at Springfield, and passen-gers from Albany or Boston proceed directly on to Hartford and New Haven.

Montreal: through tickets to Montreal may be Montreal: through tickets to Montreal may be obtained in Boston, by which passengers may proceed to Troy, and thence by stage via Chester, Elizabeth, etc., and in the season of navigation by canal to Whitehall, and thence by the splendid steamers of Lake Champlain to St. John, via Burlington, and thence by railroad and steamers to Montreal.

The trains of the Hudson and Berkshire railroad connect at Chatham and State Line.

connect at Chatham and State Line.

The Housatonic railroad connects at State Line. The trains of the Connecticut River railroad connect at Springfield, and passengers may proceed without delay to Northampton, and thence by stage to Greenfield, Brattleboro, Bellows Falls, Hanover, Haverhill, etc.

Haverhill, etc.
Stages leave West Brookfield for Ware, Endfield,
New Baintree and Hardwick; also leave Palmer,
for Three Rivers, Belchertown, Amherst, Ware and
Monson; Pittsfield for North and South Adams,
Williamstown, Lebanon Springs, etc.
Merchandize trains run daily (Sundays excepted)
between Boston, Albany, Troy, Hudson, Northampton, Hartford, etc.
For fixther, information, apply, to C. A. Read

For further information apply to C. A. Read, agent, 27 State street, Boston, or to S. Witt, agent, Albany.

JAMES BARNES,

Superintent and Engineer. Western Railroad Office, Springfield, April 1, 1846.

MANUFACTURE OF PATENT WIRE Rope and Cables for Inclined Planes, Standing Ship Rigging, Mines, Cranes, Tillers etc., by JOHN A. ROEBLING, Civil Engineer, Pittsburgh, Pa.

These Ropes are in successful operation on the planes of the Portage Railroad in Pennsylvania, on the Public Slips, on Ferries and in Mines. The first rope put upon Plane No. 3, Portage Railrord, has now run 4 seasons, and is still in good condition.

BACK VOLUMES OF THE RAILROAD JOURNAL for sale at the office, No. 23

RAILROAD IRON.—The subscriber having taken contrats for all the Railroad Iron he can manufacture at his Iron Works at Trenton, until July next, will gladly receive orders for any quantity to be delivered after that time, not exceeding thirty tons per day. Also has on hand and will make to order Bar Iron, Braziers' Rods, Wire Rods and Iron Wires of all sizes, warranted of the best quality. Also manufactures and has on hand Refined American Isinglass, warranted equal instrength to the Russian. Also on hand a constant supply of Glue, Neats' Oil, &c. &c.

PETER COOPER, 17 Burling Slip.

New York, January 23d, 1846. ly 10

C. J. F. BINNEY,
GENERAL COMMISSION MERCHANT
and Agent for Coal, and also Iron Manufactures, etc. No. 1 CITY WHARP, Boston.

Advances made on Consignments. Refer to Amos Binney, Boston. Grant & Stone, Brown, Earl & Erringer, Weld & Seaver, Baltimore. December 8, 1845.

CRIBNER'S ENGINEERS' AND MEchanics' Companion. For sale at this office. Price \$1.50.

T ARD OIL FOR MACHINERY, ETC. Winter pressed, cleansed from gum, and manufactured expressly for engines and machinery of all kinds, railroads, steamboats, woollen and other manufactures, and for burning in any lamp without clogging the wick. Engineers of railroads and others who have used this oil, and to whom reference can be made, give it preference over the best sperm for its durability, and not requiring to be cleaned off like that, and costing about two-thirds the price, For sale by the barrel, and samples can be sent for trial, by addressing

C. J. F. BINNEY,

Agent for the Manufacturer,

Li sen im.

11 eop 1m Boston, Mass



No 23 Pear street, near Third,

1m 50

below Walnut, Philadelphia.

KITE'S PATENT SAFETY BEAM.

MESSRS. EDITORS. As your Journal is devoted to the benefit of the public in gen-eral I feel desirous to for publication the folcommunicate to lowing circumstance of no inconsiderable importance, which oc-curred some few days since on the Philadel-phia, Wilmington and Baltimore railroad.

On the passage of the evening train of cars from Philadelphia to this city, an axle of our large 8 wheeled passenger car was bro-ken, but from the particular plan of the construction, the accident was entirely unknown to any of the passeu-gers, or, in fact, to the conductor himself, until the train, (as was supposed from some circumstances attend-ing the case,) had pass-ed several miles in advance of the place where the accident occurred, whereas had the car been constructed on the common plan the same kind of acci-

dent would unavoidably have much injured it, haps thrown the whole train off the track, and seriously injured, if not killed many of the passenger

Wilmington, Del., Sept. 28, 1840. The undersigned takes pleasure in attesting to the value of Mr. Joseph S. Kite's invention of the Safety Beam Axle and Hub for railroad cars. They Safety Beam Axle and Hub for railroad ears. They have for some time been applied to passenger cars on this road, and experience has tested that they fully accomplish the object intended. Several instances of the fracture of axles have occurred, and in such the cars have uniformly run the whole distance with entire safety. Had not this invention been used, serious accidents must have occurred.

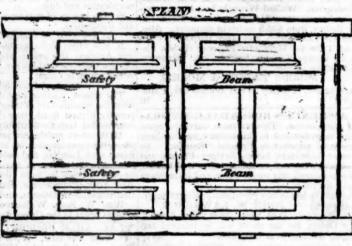
In short, we consider Mr. Kite's invention as completely successful in securing the safety of property and lives in railroad travelling, and should be used on all railroads in the country.

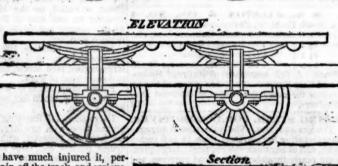
and lives in railroad travelling, and should be used on all railroads in the country.

JOHN FRAZER, Agent,

GEORGE CRAIG, Superintendant,

A model of the above improvement is to be seen at the New Jersey railroad and transportation office, No. 1 Hanover st., N. York.





DATENT HAMMERED RAILROAD, SHIF

FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

PATENT HAMMERED RAILROAD, SHIFT and Boat Spikes. The Albany Iron and Nail Works have always on hand, of their own manufacture, a large assortment of Railroad Ship and Boat Spikes, from 2 to 12 inches in length, and of any form and their ways used in their manufacture, and their very general use for railroads and other purposes in this courty, the manufactures have no hesitation in warranting them fully executed. JOHN F. WINSLOW, Agend.

Albany Iron and Nail Works, Troy, N, Y, The above spikes may be had at factory prices, and their works, will be promptly executed. JOHN F. WINSLOW, Agend.

Albany Iron and Nail Works, Troy, N, Y, The above spikes may be had at factory prices, of Erastus Corning & Co., Albany; Hart & Merritt, New York; J. H. Whitney, do.; E. J. Etting, Philadelphia; Wm. E. Coffin & Co., Boston.

DATENT RAILROAD, SHIP AND BOAT Spikes. The Troy Iron and Nail Factory keep constantly for sale a very extensive assortment of Wrought Spikes and Nails, from 3 to 10 inches manufactured by the subscriber's Patent Machinery, which after five years' successful operation, and now almost universal use in the United States (as well as England, where the subscriber obtained a patent are found superior to any ever offered in market.

Railroad companies may be supplied with Spikes having countersink heads suitable to holes in iron rails, to any amount and on a short notice. Almost all the railroads now in progress in the United States and the railroads only in progress in the United States and the railroads only in progress in the United States and the railroad companies may be supplied with Spikes and Nails from 3 to 10 inches and the railroad companies may be supplied with Spikes and Nails, from 3 to 10 inches and the railroad companies may be supplied with spikes and Nails from 3 to 10 inches and the railroad companies may be supplied with the properties of the chimney of the chimney of engine on which they are separated from he smoke and steam, and thrown into an outer chamber of the chimney have been cartines

Railroad companies may be supplied with Spikes having contersink heads suitable to holes in iron rails, to any amount and on short notice. Almost all the railroads now in progress in the United States are fastened with Spikes made at the above named factory—for which purpose they are found invaluable, as their adhesion is more than double any common spikes made by the hammer.

All orders directed to the Agent, Troy, N. York will be punctually attended to.

HENRY BURDEN, Agent.

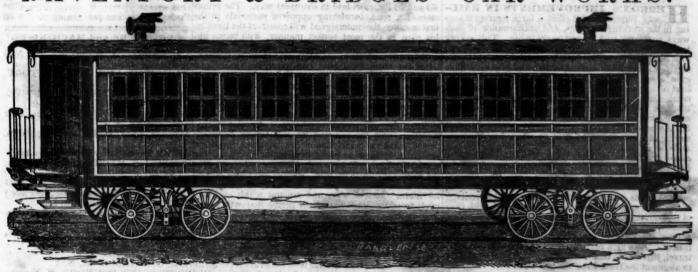
Spikes are kept for sale, at Factory Prices, by I & J. Townsend, Albany, and the principal Iron merchants in Albany and Troy; J. I. Brower, 222 Water St., New York; A. M. Jones, Philadelphia; T. Janviers, Baltimore; Degrand & Smith, Boston.

*** Railroad Companies would do well to forward their orders as early as practicable, as the subscribers will dispose of single rights, or rights for one or more States, on reasonatics in the fall was a state of the fall of the f

from \$0 to 50 lbs, per yard, will be equal in the

BENTLEY'S PATENT TUBULAR STEAM BOILER. The above named Boiler is similar in principle to the Locomotive boilers in use on our Railroads. This particular method was invented by Charles W. Bentiey, of Baltimore, Md., who has obtained a patent for the same from the Patent Office of the United States, under date of September 1st, 1843—and they are now already in successful operation in several of our larger Hotels and Public Institutions, Colleges, Alms Houses, Hospitals and Prisons, for cooking, washing, etc.; for Bath houses, Hatters, Silk, Cotton and Woollen Dyers, Morocco dressers, Soap boilers, Tallow chandlers, Pork butchers, Glue makers, Sugar refiners, Farmers, Distillers, Cotton and Woollen mills, Warming Buildings, and for Propelling Power, etc.; and thus far have given the most entire satisfaction, may be had of D. K. MINOR, 23 Chambers at New York.

DAVENPORT & BRIDGES' CAR WORKS.



DAVENPORT & BRIDGES CONTINUE TO MANUFACTURE TO ORDER, AT THEIR WORKS, IN CAMBRIDGEPORT, MASS. Passenger and Freight Cars of every description, and of the most improved pattern. They also furnish Snow Ploughs and Chilled Wheels of any pattern and size. Forged Axles, Springs, Boxes and Bolts for Care at the lowest prices. All orders punctually executed and forwarded to any part of the country Our Works are within fifteen minutes ride from State street, Boston—coaches pass every fifteen minutes.



York, expressly for the manuficture of the newly patented and highly approved Railroad Truck of Mr. Fowler M, Ray, is ready to receive orders for building the same, from Railroad Companies and Car Builders in the United States, and elsewhere.

The above Truck has now been in use from one to two years on several roads a sufficient length of time to test its durability, and other good qualities, and to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

and to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck, such as additional springs in the bolster of passenger cars, making them delightful riding cars—adapting it to tenders, trucks forward of the locomotive, and freight cars, which, with its original good qualities, make it, in all respects the most desirable truck now offered to the public.

Orders for the above, will, for the present, be executed at the New York Screw Mill, corner 33d street and 3d avenue, (late P. Cooper's rolling mills) and at the Steam Engine Shop of T. F. Secor & Co., foot of 9th street, East

solicited.

New York, May 4, 1846.

To all whom it may concern:—This is to certify that the New Haven, Hartford and Springfield railroad co., have had in use six sets of F. M. Ray's patent trucks for the last 20 months, during which time it appears to me, they have proved to be the bes and most economical truck now in use.

ISigned,]

WILLIAM ROS, Sup't of Power.

I certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Philadelphia and Reading railroad for some time past, under a massenger car.

mse on the Philadetphia and Reading railroad for some time past, under a passenger car.

For simplicity of construction, economy in cost, lightness of material, and extreme case of motion, I consider it the best truck we have ever used. Its peculiar make also renders it less liable to be thrown off the track, when passing over any obstruction. We intend using it extensively under the passenger and freight cars of the above road.

Reading, Pa., October 6, 1845. [Signed.] G. A. Nicoll.,

Supt Transportation, etc., Philadelphia and Reading Railroad.

To all whom it may concern:—This is to certify that the N. Jersey Railroad and Transportation company have used Fowler M. Ray's Truck for the last seven months, during which time it has operated to our entire satisfaction. I have no hesitation in saying that it is the simplest and most economical truck now in use.

[Signed.] T. L. Smitti,

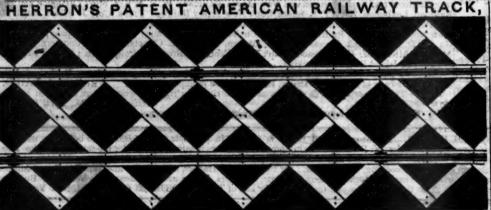
Jersey City, November 4, 1845. N. Jersey Railroad and Transp. Co.

This is to certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Long Island railroad for the last year, under a freight car.

For simplicity of construction, economy in cost, lightness of material and case of motion, I consider it equal to any truck we have in use.

Long Island Railroad Depot, Signed.]

John Leach, Jamaica November 12, 1845. Sup't Motive Power.



As seen stripped of the top ballasting

TERRON'S IMPROVEMENTS IN RAIL—

10 may Superstructure effect a large aggregate saving in the working expenses, and maintenance of rails, ways, compared with the best tracks in use. This saving is effected—its, Directly by the amount of the increase in large of the maintenance of rails, and working expenses, and maintenance of rails and ways, compared with the best tracks in use. This saving is effected—its, Directly by the amount of the increase in load of an engine.—3d, in consequence of the through of the maintenance of the tracks in use, at about one-third the expense—any other track in use, at about one-third the expense—and dashes structure of the tracks, a corresponding saving of about two-thirds will be effected in the wears and there of the engines and cars, by the economic networks, and there of the tracks, a corresponding saving of about two-thirds will be effected in the wears and there of the tracks—th, The great security to fig. and less is liability to accident or damage, should the engine or ears be thrown off the rails—5th, Eac absence of jar and vibration, that shake down retaining walls, embunkments and bridges.—6th, The great security to fig. and less peed that may be safely statinged, with confort to the tracks—the vibration, that shake down retaining walls of the high speed that may be safely statinged, with case of motion, reduction of noise, and consequently increase of motion, reduction of noise, and consequently increase of motion, reduction of noise, and consequently increase of the tracks of the rails—shaped of th

THE AMERICAN RAILROAD JOURNAL is the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all periods in any way interested in the superiod. works can be brought to the notice of all persons in any way interested in these undertakings. Hence it offers peculiar advantages for advertising times of departure, rates of fare and freight, improvements in machinery, materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new undertakings fairly before the public.

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